ORDER NO. ACED040340C7

C4

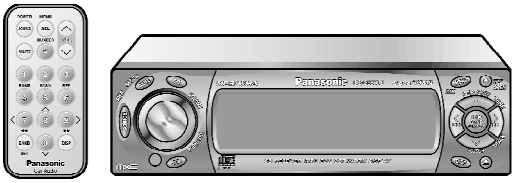
Service Manual

AUTOMOTIVE AFTERMARKET

COMPACT disc DIGITAL AUDIO TEXT MP3 WMA

CQ-C9800U / CQ-C9700U

Removable Full Front MP3 WMA CD Player/Receiver with Full Dot Matrix Display and CD Changer Control



(CQ-C9800U)

SPECIFICATIONS

Specifications*

General	
Power Supply	DC 12V (11V-16V), Test Voltage 14.4V Negative Ground
Current Consumption	Less than 2.2A / (CD mode; 0.5W × 4-speaker)
Maximum Power Output	
<CQ-C9800U>	70W × 4(at 1kHz) / Volume Control Maximum
<CQ-C9700U> /	60W × 4(at 1kHz) / Volume Control Maximum
Tone Adjustment Range	Bass: ±28dB at 20Hz / Treble: ± 20dB at 20kHz
Equalizer Center Frequency	62.5Hz, 125Hz, 250Hz, 500Hz, / 1kHz, 2kHz, 4kHz, 8kHz,16kHz (default)
Variable Range of Equalizer	-12dB to 12dB (2dB step)
Speaker Impedance	4 - 8 Ω
Pre-amp Output Voltage	5V (CD mode; 1kHz, 0dB)
Subwoofer Output Voltage	5V
Pre-amp Output Impedance	60 Ω
Subwoofer Output Impedance	60 Ω
External Input Impedance	10k Ω (AUX IN)
External Input Sensitivity	MAX. 2V (AUX IN)
FM Stereo Radio	
Frequency Range	87.9MHz - 107.9MHz
Usable Sensitivity	13.2dBf (1.26 μ V, 75 Ω)
50dB Quieting Sensitivity	19.2dBf. (2.51 μ V, 75 Ω)
Frequency Response	30Hz-15kHz (±3dB)
Alternate Channel Selectivity	75dB
Stereo Separation	40dB (1kHz)
Image Response Ratio	75dB
IF Response Ratio	100dB
Signal to Noise Ratio	62dB
AM Radio	
Frequency Range	530kHz - 1,710kHz
Usable Sensitivity	25dB/ μ V (11V, S/N 20dB)
CD Player	
Sampling Frequency	8 Times Oversampling
Pick-up Type	Astigma 3-Beam
Light Source	Semiconductor Laser
Wave Length	780 nm
Frequency Response	20 Hz-20kHz (±1dB)
Signal to Noise Ratio	106dB
Total Harmonic Distortion	0.01% (1kHz)
Wow and Flutter	Below Measurable Limits
Channel Separation	86dB

Dimensions (W×H×D)**	**7”×1-15/16”×6-1/8” / (178×50×155mm)**
Weight**	**3 lbs. 12oz (1.7 kg)**
*** Specifications and the design are subject to possible modification without notice due to improvements.** **** Dimensions and Weight shown are approximate.** **** Above specifications comply with EIA standards.**	

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

1. ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution :

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.

- Pb free solder will tend to splash when heated too high (about 1100°F/600°C)

- This lead free solder will be used for the products after serial No. 1,000,001.

2. FEATURES

- Full Digtal CD Receiver

- Radio DSP

- MP3/WMA Playback from CD-R/RW

- **SQ9 (9 Bands Sound Quality)**
- **HPF (High Pass Filter)/Subwoofer LPF (Low Pass Filter)**
- **Fully Motorized Front Panel**
- **Customizeble Graphics**
- **CD Changer Control**
- **Dynamic Control (Bass/ treble)**
- **The difference among two models CQ-C9800U and CQ-C9700U are mentioned below**

Features \ Models	CQ-C9800U	CQ-C9700U
Power output	70 W	60 W

3. REPLACEING THE FUSE

Use fuses of the same specified rating 15 amps. Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.

4. MAINTENANCE

Your products is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvent.

5. NOTES

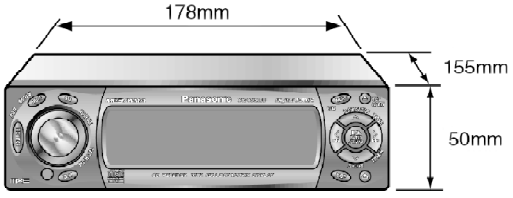
[RADIO BLOCK]

Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.

[CD DECK BLOCK]

This model has no servo alignment points because microcomputer controls the servo circuit

6. DIMENSIONS



(CQ-C9800U)

7. LASER PRODUCTS

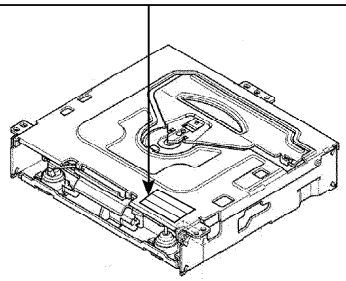
CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.

Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

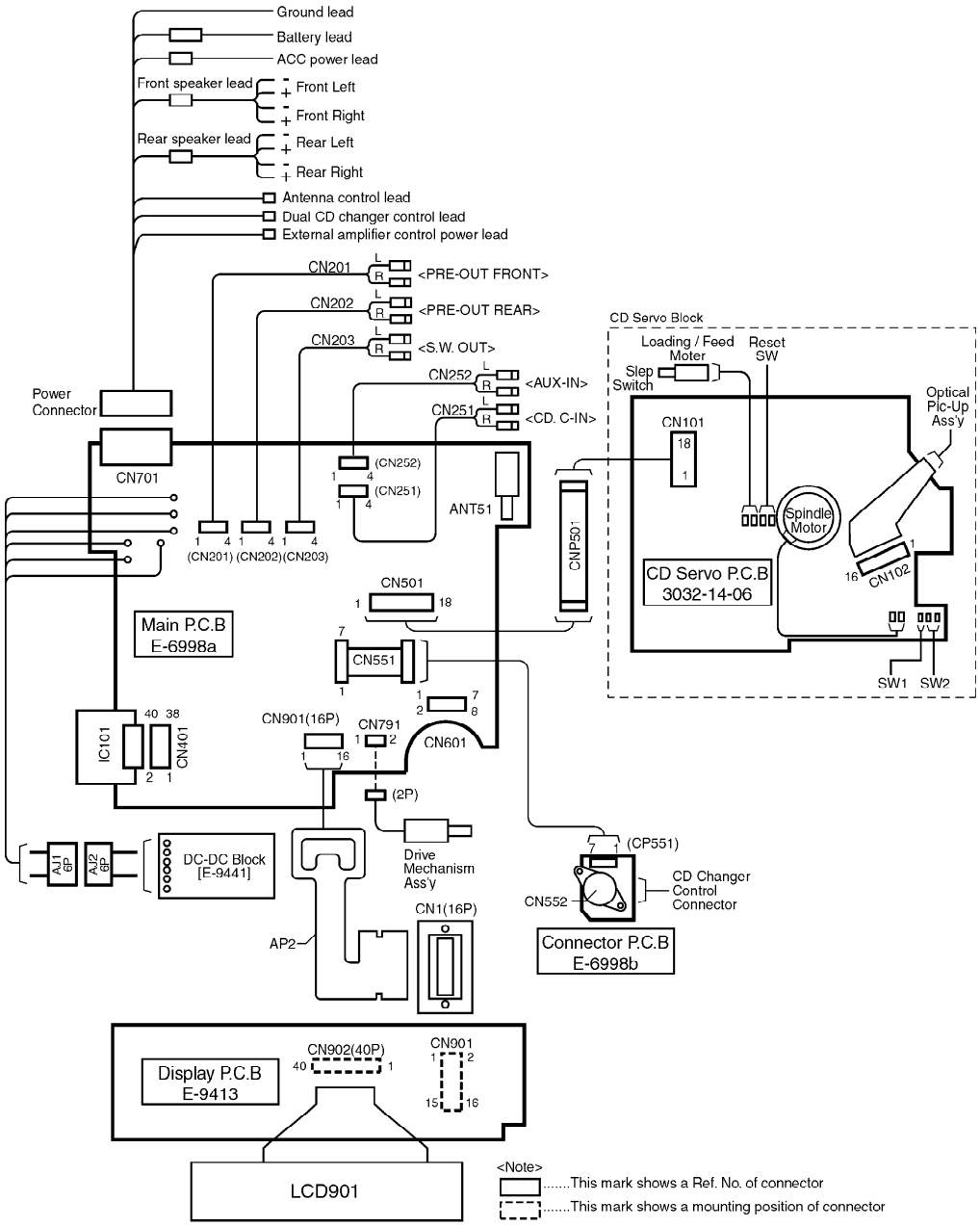
DANGER! Visible and invisible laser radiation when open. Avoid direct exposure to beam.



Deck Ass'y (Upper Side)

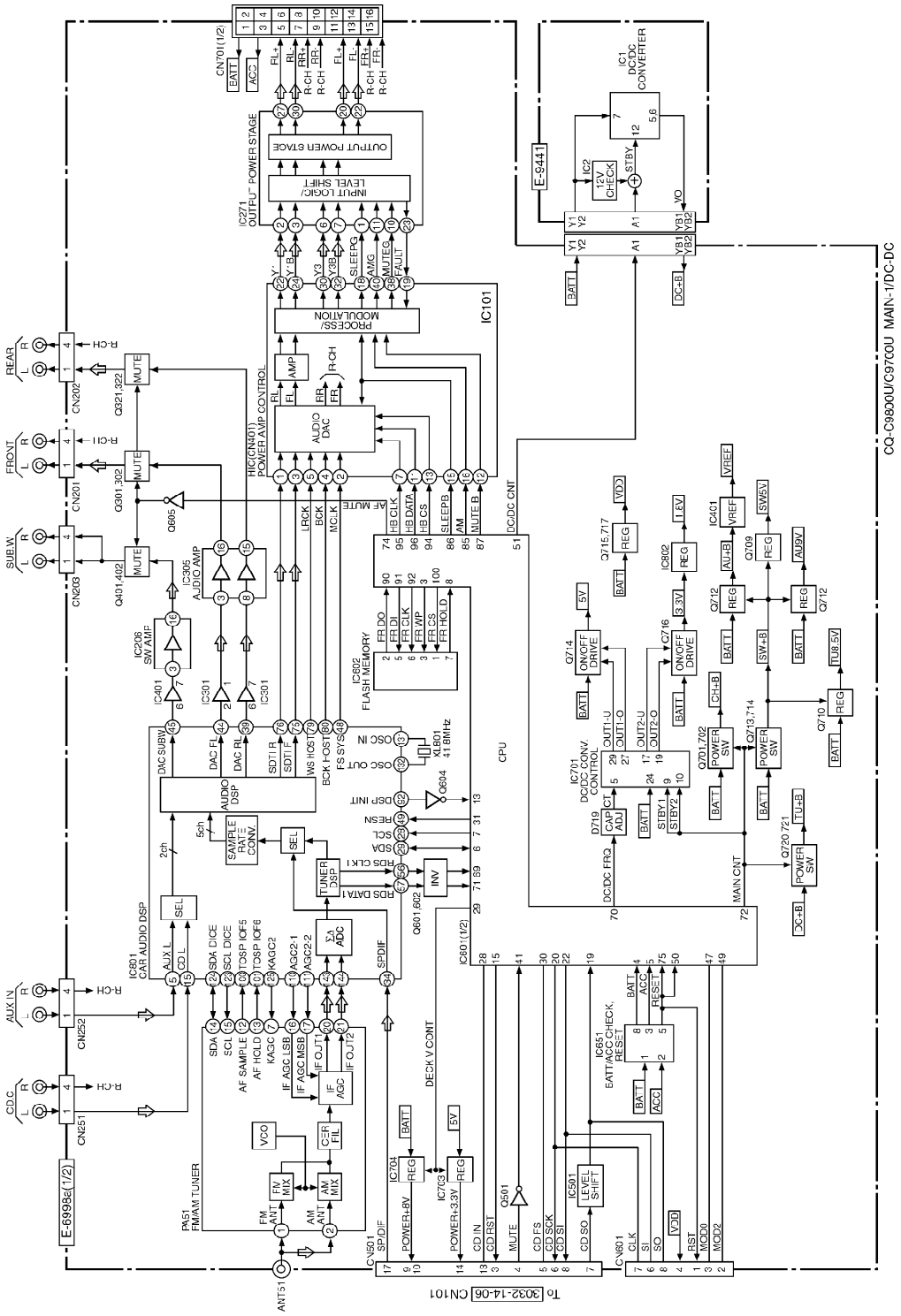
Caution
This Product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

8. WIRING CONNECTION

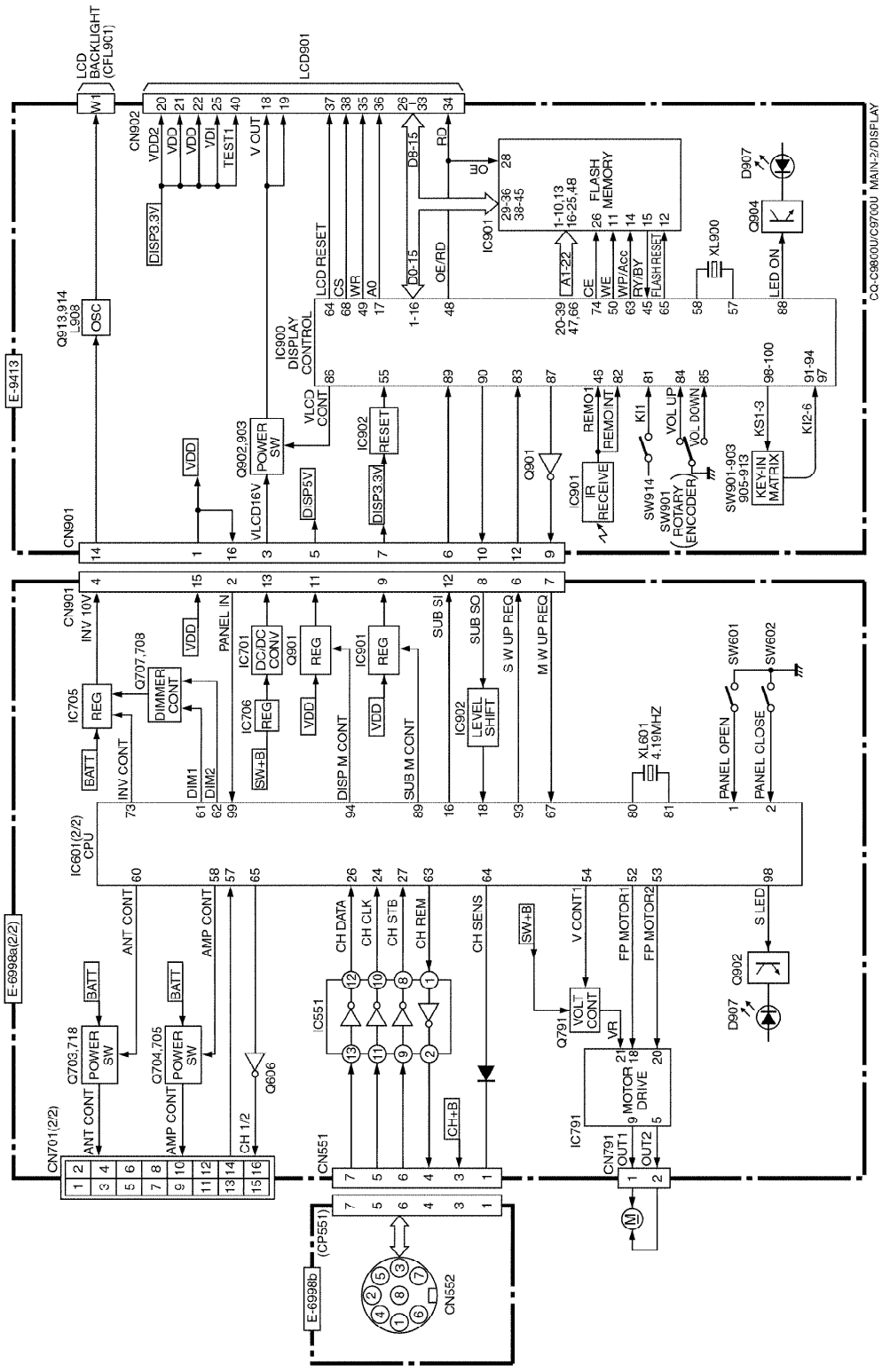


9. BLOCK DIAGRAM-2

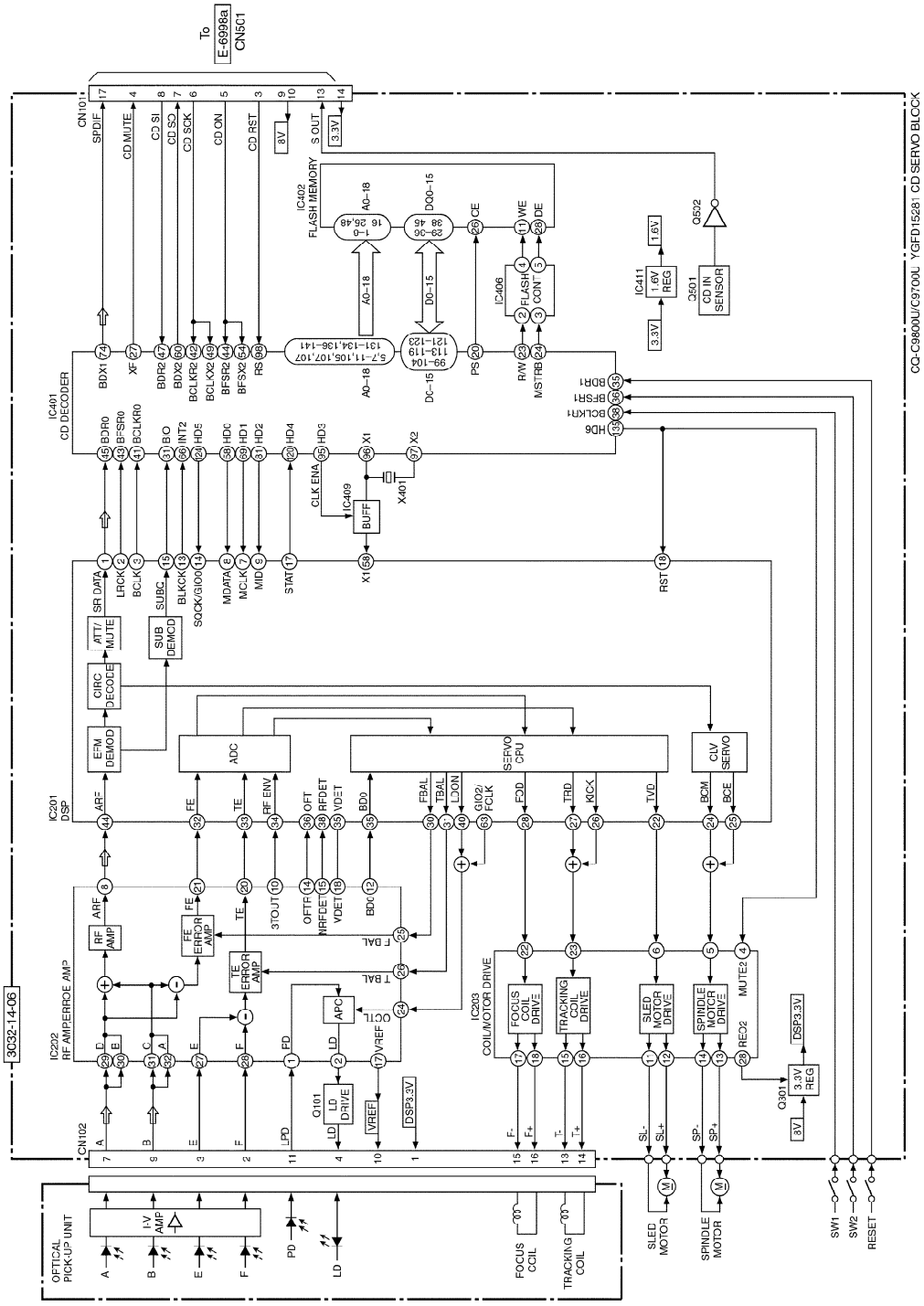
9.1. Main Block-1



9.2. Main-2/Display Block



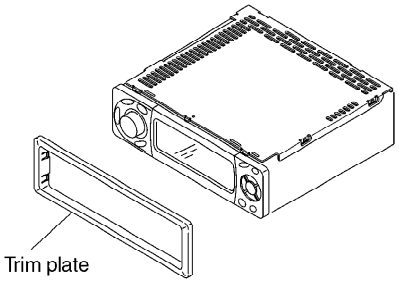
9.3. CD Servo Block



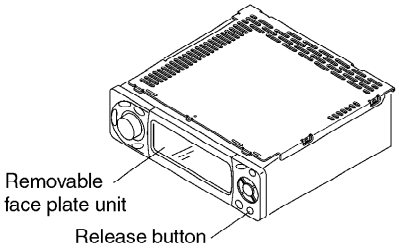
10. DISASSEMBLY INSTRUCTIONS

■How to remove the flexible PCB(AP2)

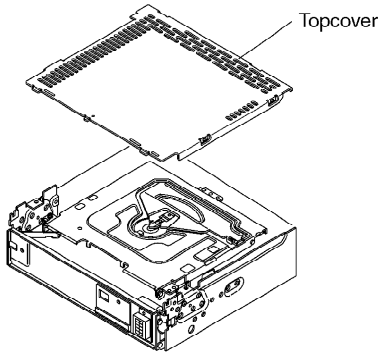
1. Remove the trim plate.



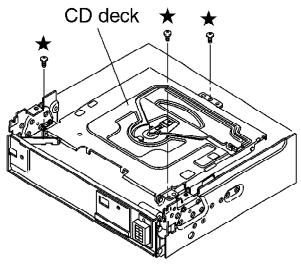
2. Remove the removable face plate unit by pressing the release button.



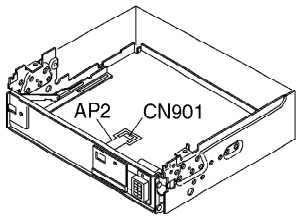
3. Take off the top cover.



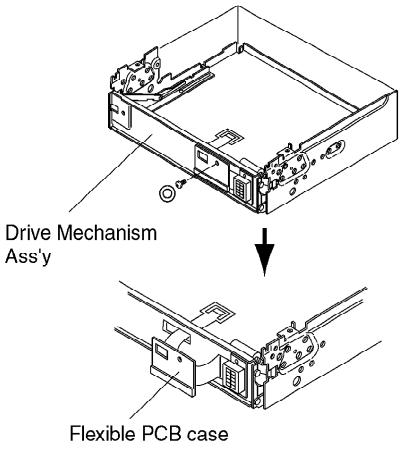
4. Remove the 3 screws(★) and take off the CD deck.



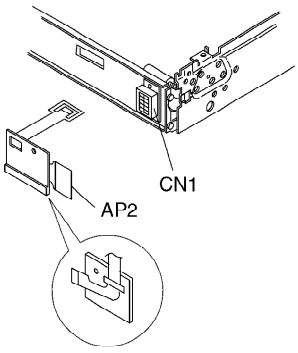
5. Remove the flexible PCB(AP2) from the CN901 (E-6998a).



6. Remove the screw(◎) from the Drive Mechanism Ass'y and remove the flexible PCB case.



7. Remove the flexible PCB(AP2) from the CN1.



11. TERMINALS DESCRIPTION

11.1. Main Block

IC601 : C2CBKG000017

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
1	PANEL_OPEN	PANEL OPEN detection	I	5.3	5.3	5.3
2	PANEL_CLOSE	PANEL CLOSE detection	I	5.3	5.3	0
3	FR/WP	-	O	5	5	5
4	BATT	BATT detection	I	5	4.9	5
5	ACC	ACC detection	I	5	4.9	5
6	SDA_DSP	Electronic VOL data	I/O	4.4	4.7	4.7
7	SCLK_DSP	Electronic VOL clock	O	4.5	4.7	4.7
8	FR/HOLD	-	-	4.9	4.9	5
9	Vss	GND	I	0	0	0
10	LMTR_FR(NC)	No Connection	-	-	-	-
11	LMTR_S_L_MONO(NC)	No Connection	-	-	-	-
12	LMTR_S_R_CENT(NC)	No Connection	-	-	-	-
13	DSP_INT_OK	PLL Clock Output	O	0	0	0
14	DE_EMPH_I2S1(NC)	No Connection	-	-	-	-
15	CD_RESET	CD deck reset output	O	4.9	4.9	4.9
16	SUB_SI	SUB_u-com Data trans	SO	0.7	0.7	0.7
17	NC	No Connection	-	-	-	-
18	SUB_SO	SUB_u-com data recept	SI	4.4	4.4	4.4
19	CD_SO	CD_Data recept	SI	0	0	1.7
20	UP_CLK	FLASH_W CLK	SCK	4.9	4.9	4.9
21	Vdd	Power supply	I	4.9	4.9	4.9
22	UP_SI	FLASH_W SI	S0	0	0	0
23	NC	No Connection	-	-	-	-
24	CH_CLK	Clock recept from Changer	SCK	0	0	0
25	CONDENSOR	Capacitor for power supply	-	3.2	3.2	3.2
26	CH_DATA	Data recept from Changer	SI	0	0	0
27	CH_STB	Changer stororb signal input	INT	0	0	0
28	CD_IN	DISC in detect	I	4.9	5	0
29	DECK_CONT	DECK power supply control output	O	4.9	4.9	4.9

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
30	CD_FS	-	O	4.9	4.9	2.8
31	RESET_DSP	-	O	4.9	4.9	4.9
32	Avdd	Power supply of D/A converter	I	5.1	5.1	5.1
33	AVREF	Reference voltage for D/A converter	I	5.1	5.1	5.1
34	AVGND	Reference GND for D/A converter	I	0	0	0
35	AVSS	Grand for A/D and D/A converter	I	0	0	0
36	NC	No Connection	-	-	-	-
37	INIT_A	Initializ A	A/D	2.9	2.8	2.9
38	INIT_B	Initializ B	A/D	0	0	0
39	NC	No Connection	-	-	-	-
40	Vss	GND	I	0	0	0
41	CD MUTE	Signal output according to command employment	O	5.1	5.1	5.1
42	NC	No Connection	-	-	-	-
43	NC	No Connection	-	-	-	-
44	NC	No Connection	-	-	-	-
45	NC	No Connection	-	-	-	-
46	NC	No Connection	-	-	-	-
47	MOD0	Operating mode input 0	I	5.1	5.1	5.1
48	MOD1	Operating mode input 1	I	5.1	5.1	5.1
49	MOD2	Operating mode input 2	I	0	0	0
50	H_STANDBY	External standby input	I	5.2	5	5.1
51	DC_DC_CNT	DC/DC control for 60W	-	-	-	-
52	FP_MOTOR1	Front open/ close control 1	O	4.9	4.9	5
53	FP_MOTOR2	Front open/ close control 2	O	4.9	4.9	5
54	V_CNT1	Panel driving voltage conCirol 1	O	0	0	0

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
55	V_CNT2(NC)	No Connection	-	-	-	-
56	NC	No Connection	-	-	-	-
57	EXT_MUTE	TEL/ NAVI_MUTE input	I	5.1	5	5.1
58	AMP_CONT	External AMP control	O	4.9	4.9	5
59	BZ_OUT(NC)	No Connection	-	-	-	-
60	ANT_CONT	Motor antenna control	O	4.9	4.9	0
61	DIM1	Dimmer control output 1	O	0	0	0
62	DIM2	Dimmer control output 2	O	0	0	0
63	CDC_REM	Remote control code output to Changer	O	5	5	5
64	CDC_SENS	CDC_1/2 detection	I	5.1	5.1	5.1
65	CDC_1/2	CDC_1/2 change output	O	0	0	0
66	NC	No Connection	-	-	-	-
67	M_W_UP	MAIN.WAKE.UP.REQ input	I	5.1	5.1	5.1
68	NC	No Connection	-	-	-	-
69	RDS_CLK/ NC	RDS Clock Input	INT	0	0	0
70	DC/DC_FRQ	-	O	0	0	0
71	RDS_DATA/ NC	RDS Data Input	I	0	0	0
72	MAIN_CONT	MAIN power supply control output	O	4.9	4.9	5
73	INV_CONT	INV power supply control output	O	5	5	5
74	AF_MUTE	Tr-MUTE control	O/I	5.4	5.4	5.4
75	RESET	Reset input	I	5	5	5
76	NC	No Connection	-	-	-	-
77	X1A(NC)	No Connection	-	-	-	-

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
78	X0A	Connecting to GND	I	0	0	0
79	Vss	GND	I	0	0	0
80	X1	Crystal oscillator input	I	2	2	2
81	X2	Crystal oscillator output	O	2	2	2
82	Vdd	Power supply	I	5	5	5.1
83	P00	Pldaun port for writing	I	0	0	0
84	P01	Pull-up port for writing	I	5.1	5.1	5.1
85	AM	PWR-IC_OFFSET detection	I	5	5	0
86	SLEEP_PB	PWR-IC_STBY control output	O	5	5	5.1
87	MUTE B	PWR-IC_MUTE control output	O	5	5	5
88	ILL_SENS	External dimmer control input	I	4.8	4.9	4.9
89	S_M_CONT	3.3V control for SUB microcomputer	O	5	5	5
90	FR_DO	EPROM data input	O/I	1.8	1.6	1
91	FR_DI	EPROM Communication Data Output	O	0	0	0
92	FR_CLK	EPROM Communication CLK	O	0	0	0
93	S_W_UP	SUB.WAKE.UP.REQ	O	4.9	4.9	5
94	DISPM_CONT	Power supply control output of display 5V	O/I	0	0	0
95	HB_CLK	-	O	5	5	5
96	HB_DATA	Rotary Encoder Signal Input 1	I	5	5	5
97	HB_CS	Rotary Encoder Signal Input 2	I	5	5	5

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
98	S_LED	Security LED control output	O	0	0	0
99	PANEL_IN	PANEL detect	I	5.1	5.1	5.1
100	EP_/CS	EPROM Existence Detection	I	5	5	5

11.2. Display Block

IC900 : C2DBKJ000187

Pin No.	Port	Part Name & Description	I/O	(V)
1	D0	FLASH D0	I	0.7
2	D1	FLASH D1	I	1.3
3	D2	FLASH D2	I	1.3
4	D3	FLASH D3	I	1.6
5	D4	FLASH D4	I	1.7
6	D5	FLASH D5	I	1.6
7	D6	FLASH D6	I	1.4
8	D7	FLASH D7	I	1.3
9	D8	FLASH D8/LCD D0	I/O	1.4
10	D9	FLASH D9/LCD D1	I/O	1.3
11	D10	FLASH D10/LCD D2	I/O	1.6
12	D11	FLASH D11/LCD D3	I/O	1.6
13	D12	FLASH D12/LCD D4	I/O	1.6
14	D13	FLASH D13/LCD D5	I/O	1.5
15	D14	FLASH D14/LCD D6	I/O	1.6
16	D15	FLASH D15/LCD D7	I/O	1.5
17	A0	LCD driver data command distinction	O	0.8
18	VSS	Connecting to GND	-	0
19	VCC	Connecting to VDD	-	3
20	A1	FLASH A0	O	0
21	A2	FLASH A1	O	0.6
22	A3	FLASH A2	O	0.1
23	A4	FLASH A3	O	0.6
24	A5	FLASH A4	O	0.6
25	A6	FLASH A5	O	0.8
26	A7	FLASH A6	O	0.9
27	A8	FLASH A7	O	0.6
28	A9	FLASH A8	O	0
29	A10	FLASH A9	O	0
30	A11	FLASH A10	O	0.8
31	A12	FLASH A11	O	1.2

Pin No.	Port	Part Name & Description	I/O	(V)
32	A13	FLASH A12	O	1.2
33	A14	FLASH A13	O	0
34	A15	FLASH A14	O	0
35	A16	FLASH A15	O	1
36	A17	FLASH A16	O	0
37	A18	FLASH A17	O	0
38	A19	FLASH A18	O	0
39	A20	FLASH A19	O	0
40	VSS	Connecting to GND	-	0
41	NC	No Connection	-	-
42	NC	No Connection	-	-
43	VSS	Connecting to GND	-	0
44	VCC	Connecting to VDD	-	3.2
45	FLASH_RY/BY	FLASH lady/busy input	I	3.2
46	REMO_1	Remote control signal input	I	3.3
47	A22	FLASH_A21	O	18.7
48	FLASH_OE/LCD_RD	FLASH output enable /LCD driver lead strobing output	O	3.2
49	LCD_WR	LCD driver right strobing signal output	O	3.2
50	FLASH_WE	FLASH light enable signal output	O	3.2
51	NMIX	-	I	3.2
52	MD2	Mode setting	I	0
53	MD1	Mode setting	I	0
54	MD0	Mode setting	I	0
55	RESET	System RESET signal input	I	3.2
56	VCC	Connecting to VDD	-	3.3
57	X1	MAIN system clock output(12.5MHz)	O	1.5
58	X0	MAIN system clock input(12.5MHz)	I	1.2
59	VSS	Connecting to GND	-	0
60	X0A	Connecting to GND	I	0
61	X1A(NC)	No Connection	-	-
62	NC	No Connection	-	-
63	FLASH_WP/ACC	FLASH write-protection/ Acseraration output	O	-

Pin No.	Port	Part Name & Description	I/O	(V)
64	LCD_RESET	LCD driver reset control output	O	-
65	FLASH_RESET	FLASH reset control output	O	-
66	A21	FLASH_A20	O	-
67	NC	No Connection	-	-
68	LCD_CS	LCD driver chip selection output	O	-
69	NC	No Connection	-	-
70	LED_R (PN0)	Red LED control	O	0
71	LED_G (PN2)	Green LED control	O	0
72	LED_B(NC)	No Connection	-	-
73	NC	No Connection	-	-
74	FLASH_CE	FLASH chip enable	O	-
75	NC	No Connection	-	-
76	VSS	Connecting to GND	-	0
77	VCC	Connecting to VDD	-	3.2
78	NC	No Connection	-	-
79	NC	No Connection	-	-
80	NC	No Connection	-	-
81	KI1(SOURCE)	One key return signal input	INT/I	0
82	REMO_INT	Remote control signal interrupt input	INT	3.2
83	S_W_U_REQ	SUB-u-com wake up demand input	INT	3.0
84	ROTARY.1	Rotary encoder signal input 1(VOL UP)	I	2.3
85	ROTARY.2	Rotary encoder signal input 2(VOL DOWN)	I	2.3
86	VLCD_CONT	VLCD 16V control terminal	O	3.1
87	M_W_U_REQ	MAIN-u-com wake up demand output	O	0
88	LED_ON	P.LED control output	O	3.1
89	SUB_SI	MAIN-u-com communication data entry	I	0.2
90	SUB_SO	MAIN-u-com communication data output	O	2.5

Pin No.	Port	Part Name & Description	I/O	(V)
91	KI2	Key return signal 2 input	I	0
92	KI3	Key return signal 3 input	I	0
93	KI4	Key return signal 4 input	I	0
94	KI5	Key return signal 5 input	I	0
95	VCC	Connecting to VDD	-	3.2
96	VSS	Connecting to GND	-	0
97	KI6	Key return signal 6 input	I	0
98	KS1	Key scanning signal 1 output	O	0
99	KS2	Key scanning signal 2 output	O	0
100	KS3	Key scanning signal 3 output	O	0
101	NC	No Connection	-	-
102	UP_SO	External Flash rewriting input	O	-
103	UP_SI	External Flash rewriting output	O	-
104	UP_CLK	External Flash rewriting switch	I	3.2
105	NC	No Connection	-	-
106	NC	No Connection	-	-
107	DAVS	Connecting to GND	-	0
108	DAVC	Power supply for D/A converter	-	3.2
109	AVCC	Power supply for A/D converter	-	3.2
110	AVRH	Reference voltage of A/D converter	-	3.2
111	AVSS/AVRL	Connecting to GND	-	0
112	VSS	Connecting to GND	-	0
113	INIT	Initialization switch input	I	3.2
114	TH_DETECT	Temperature detection input	I	1.2
115	NC	Connecting to GND	I	0
116	NC	Connecting to GND	I	0
117	NC	Connecting to GND	I	0
118	NC	Connecting to GND	I	0
119	NC	Connecting to GND	I	0

Pin No.	Port	Part Name & Description	I/O	(V)
120	NC	Connecting to GND	I	0

11.3. CD Servo Block

IC401 YESAM176

Pin No.	Port	Descriptions	I/O	(V)
1	CVSS1	GND	-	0
2	-	-	-	-
3	CVSS2	GND	-	0
4	DVSS1	I/O system (3.3V) power supply	-	3.3
5	A10	Address bus of FLASH ROM	O	0
6	HD7(NC)	No Connection	-	-
7	A11	Address bus of FLASH ROM	O	3.3
8	A12		O	3.3
9	A13		O	3.3
10	A14		O	3.3
11	A15		O	3.3
12	/CVDD1	CORE CPU system (1.6V) power supply	-	1.6
13	/ HAS(NC)	No Connection	-	-
14	DVSS1	GND	-	0
15	CVSS3	GND	-	0
16	CVDD2	I/O system (3.3V) power supply	-	1.6
17	/ HCS(NC)	No Connection	-	-
18	HRW(NC)	No Connection	-	-
19	READY	-	-	3.3
20	nPS	FLASH ROM selection signal	O	3.3
21	/DS(NC)	No Connection	-	-
22	/IS(NC)	No Connection	-	-
23	R/W	Lead/light signal to FLASH ROM	O	3.3
24	nMSTRB	Memory access signal	O	3.3
25	-	No Connection	-	-
26	/MSC	-	-	3.3
27	MUTE	Mute signal output (H:Mute on)	O	0
28	-	No Connection	-	-

Pin No.	Port	Descriptions	I/O	(V)
29	-	No Connection	-	-
30	/HOLD	-	-	3.3
31	SUBQ	SUBQ input	I	0
32	-	Operation mode setting (external pull-up)	I	3.3
33	DVDD2	I/O system (3.3V) power supply	-	3.3
34	CVSS4	GND	-	0
35	(GND)	GND	I	0
36	-	No Connection	-	-
37	CVSS5	GND	-	0
38	-	No Connection	-	-
39	-	No Connection	-	-
40	DVSS2	GND	-	0
41	CLK C M	AUDIO bit clock input	I	1.6
42	SCK	Clock input	I	3.3
43	LRCK C M	AUDIO L/R identifying signal input	I	1.6
44	CDFS	Serial frame sink signal input	I	2.6
45	DATA M C	AUDIO serial data input	I	1.6
46	-	No Connection	-	-
47	SI	Serial data input	I	0
48	CLK M C	AUDIO bit clock output	O	1.6
49	SCK	Clock input	I	3.3
50	CVSS6	GND	-	0
51	-	No Connection	-	-
52	CVDD3	CORE CPU system (1.6V) power supply	-	1.6
53	LRCK M C	AUDIO L/R identifying signal output	O	1.6
54	CDFS	Serial frame sink signal input	I	2.4
55	-	No Connection	-	-
56	DVDD3	I/O system (3.3V) power supply	-	3.3
57	DVSS3	GND	-	0
58	REST SW	Mechanics deck REST SW input	I	3.3
59	DATA M C	AUDIO serial data output	O	1.6
60	SO	Serial data output	O	1.2

Pin No.	Port	Descriptions	I/O	(V)
61	-	No Connection	-	-
62	-	No Connection	-	-
63	/NMI	-	-	3.3
64	/INT0	-	-	3.3
65	/INT1	-	-	3.3
66	BLKCK	Subcode block clock pulse input	I	0
67	/INT3	-	-	3.3
68	CVDD4	CORE CPU system (1.6V) power supply	-	1.6
69	SW1	Mechanics deck SW1 input	I	0
70	CVSS7	GND	-	0
71	MCLK	Clock output (To Servo DSP)	O	3.3
72	DVSS4	GND	-	0
73	MLD	Command load signal output (To Servo DSP)	I	3.3
74	MDATA	Command data output (To Servo DSP)	O	3.3
75	DVDD4	I/O system (3.3V) power supply	-	3.3
76	DVSS5	GND	-	0
77	CLKMD1	Clock mode setting (L fixation)	I	0
78	CLKMD2	Clock mode setting (H fixation)	I	3.3
79	CLKMD3	Clock mode setting (L fixation)	I	0
80	-	No Connection	-	-
81	SW2	Mechanics deck SW2 input	I	0
82	-	No Connection	-	-
83	EMU0	-	-	0
84	EMU/ OFF	-	-	3.3
85	TDO	-	-	3.3
86	TDI	-	-	0
87	/TRST	-	-	3.3
88	TCK	-	-	0
89	TMS	-	-	3.3
90	CVSS8	GND	-	0
91	CVDD5	CORE CPU system (1.6V) power supply	-	1.6
92	(GND)	GND	I	0
93	DVSS6	GND	-	0
94	-	No Connection	-	-

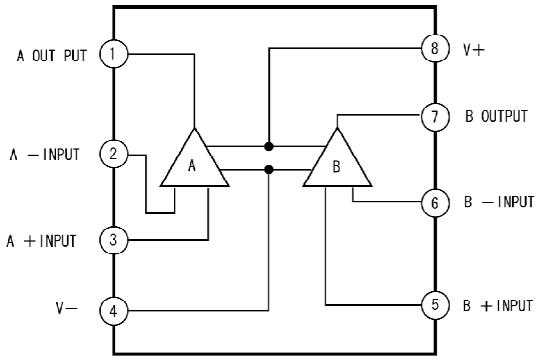
Pin No.	Port	Descriptions	I/O	(V)
95	CLKENA	Oscillation output Cainabl signal	O	3.3
96	×1	Crystal Connection	O	0
97	×2	Crystal Connection	I	0
98	(VDD)	Reset signal input	I	1.0
99	D0	Data base of FLASH ROM	I/O	3.4
100	D1		I/O	0
101	D2		I/O	0
102	D3		I/O	0
103	D4		I/O	0
104	D5		I/O	0
105	A16	Address bus of FLASH ROM	O	0
106	DVSS7	GND	-	0
107	A17	Address bus of FLASH ROM	O	3.3
108	A18		O	0
109	A19		O	0
110	A20		O	0
111	CVSS9	GND	-	0
112	DVDD5	I/O system (3.3V) power supply	-	3.3
113	D6	Data bus of FLASH ROM	I/O	0
114	D7		I/O	0
115	D8		I/O	0
116	D9		I/O	0
117	D10		I/O	0
118	D11	Data bus of FLASH ROM	I/O	0
119	D12		I/O	0
120	STAT	Status signal input	I	0.4
121	D13	Data path of FLASH ROM	I/O	0
122	D14		I/O	0
123	D15		I/O	0
124	SQCK	SOCK clock output(To Servo DPS)	O	3.3
125	CVDD6	CORE CPU system (1.6V) power supply	-	1.6
126	CVSS10	GND	-	0
127	-	No Connection	-	-
128	DVSS8	GND	-	0
129	-	No Connection	-	-
130	DVDD6	I/O system (3.3V) power supply	-	3.3

Pin No.	Port	Descriptions	I/O	(V)
131	A0	Address bus of FLASH ROM	O	0
132	A1		O	0
133	A2		O	3.3
134	A3		O	3.3
135	/RST	Reset signal output(To Servo DSP)	O	3.3
136	A4	Address bus of FLASH ROM	O	3.3
137	A5		O	0
138	A6		O	3.3
139	A7		O	3.3
140	A8		O	0
141	A9		O	3.3
142	CVDD7	CORE CPU system (1.6V) power supply	-	1.6
143	A21	-	-	0
144	DVSS9	GND	-	0

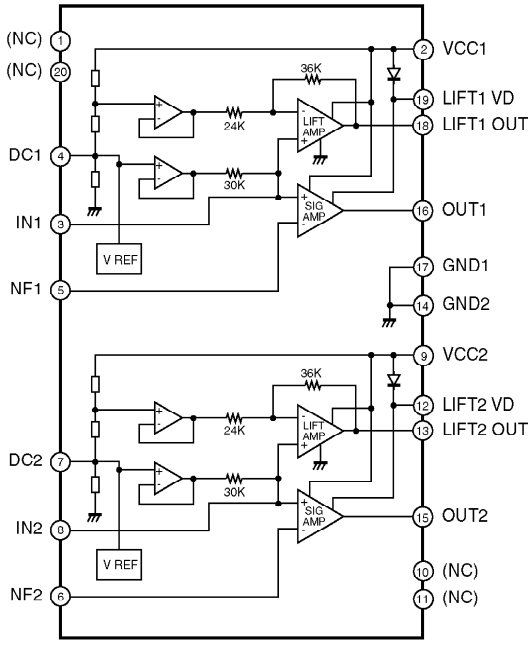
12. IC BLOCK DIAGRAM

12.1. Main Block

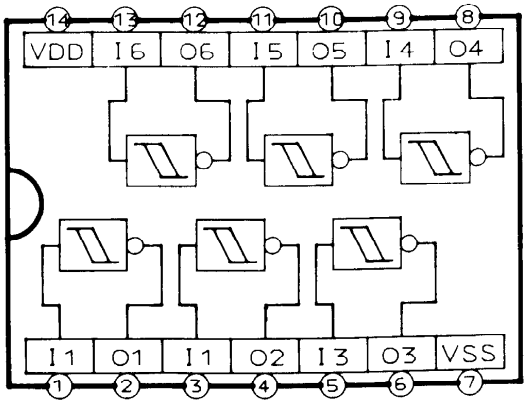
IC201,301,401 : C1ABBB000090



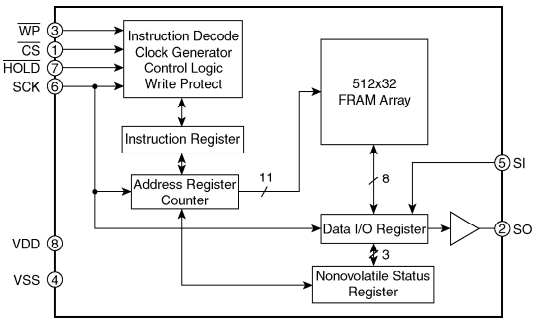
IC205,206,305 : C1BB00000650



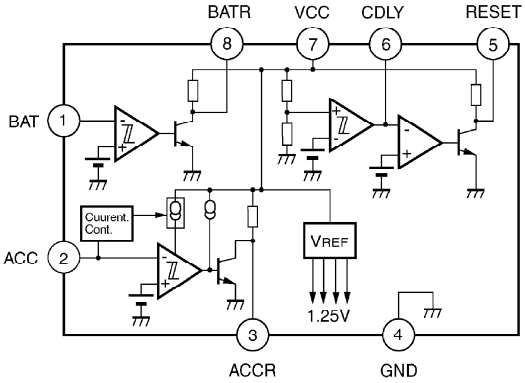
IC551 : YEAMC14584BE



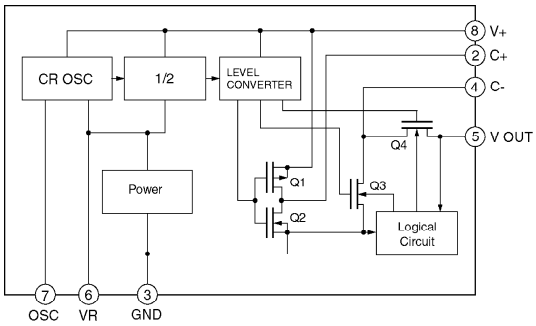
IC602 : C3GBCC000001



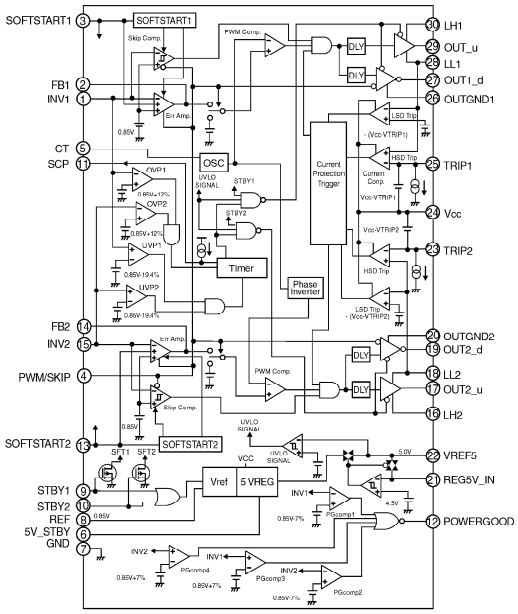
IC651 : AN8065SE1



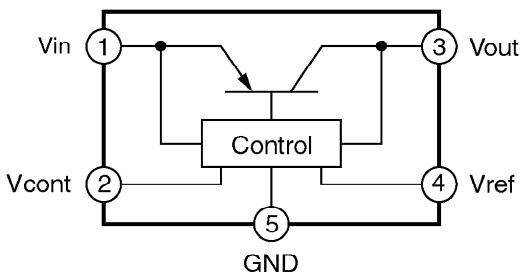
IC701 : C0DBABZ00002



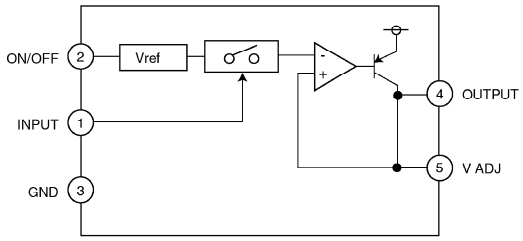
IC702 : C0DBAZG00028



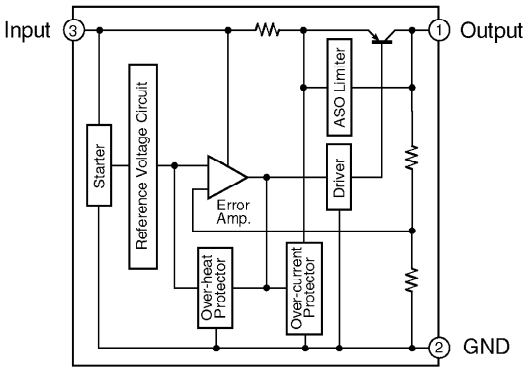
IC703 : C0CBCBG00002



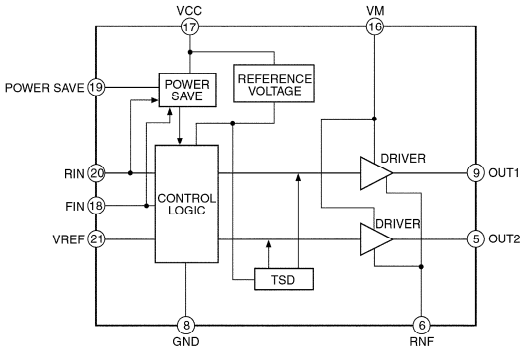
IC704,IC705 : C0CAAYG00005



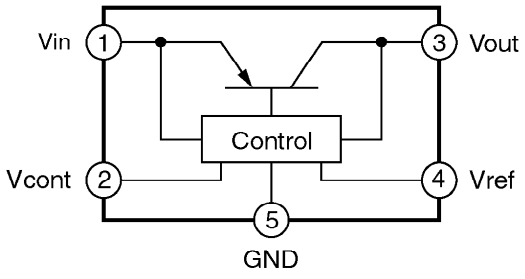
IC706 : YEAMC78L08E2



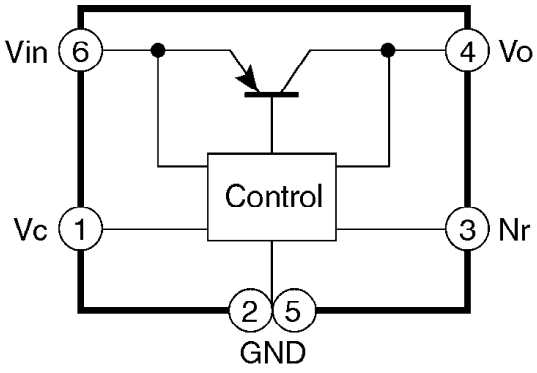
IC791 : C0GBG0000032



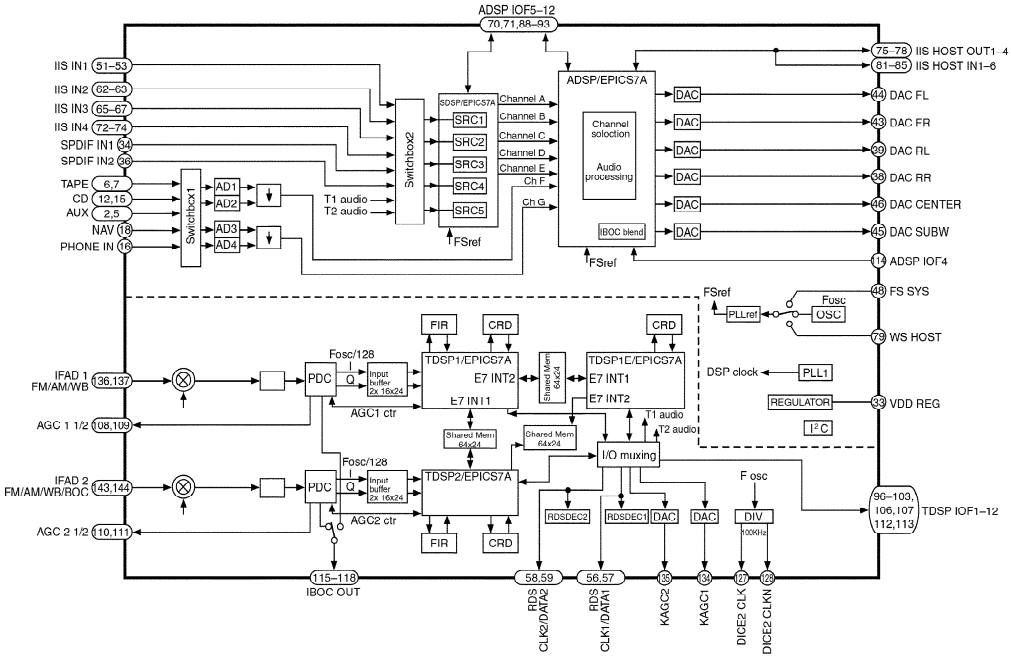
IC802 : C0DBFFG00004



IC901 : C0CBABC00037

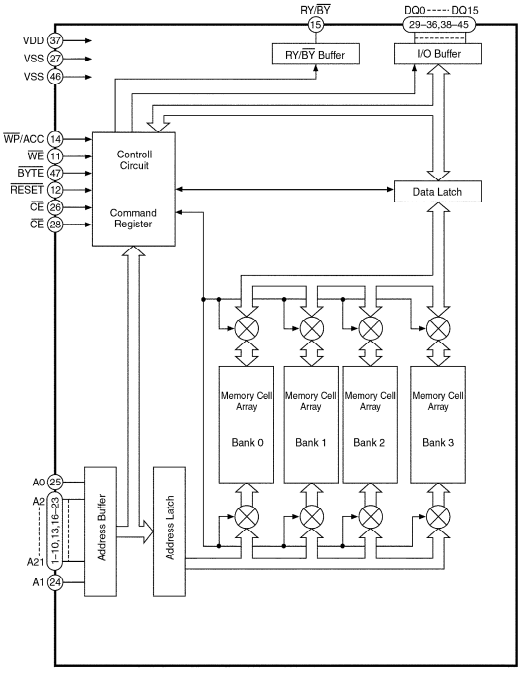


IC801 : C2HBCH000002

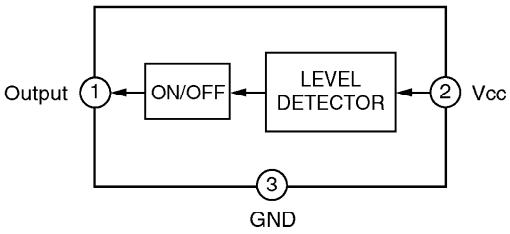


12.2. Display Block

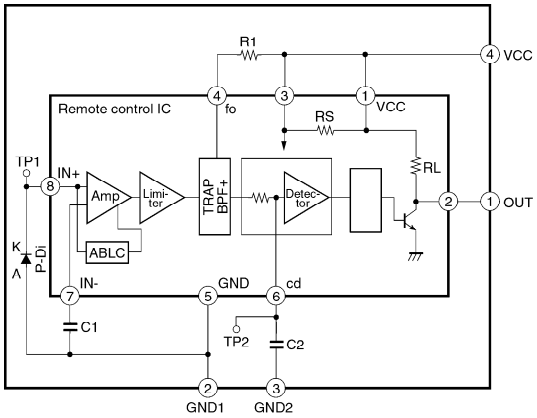
IC901 : C3FBPD000139



IC902 : MN1382JP

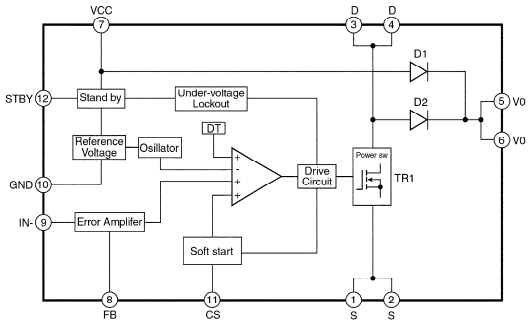


IC903 : B3MBZ0000006

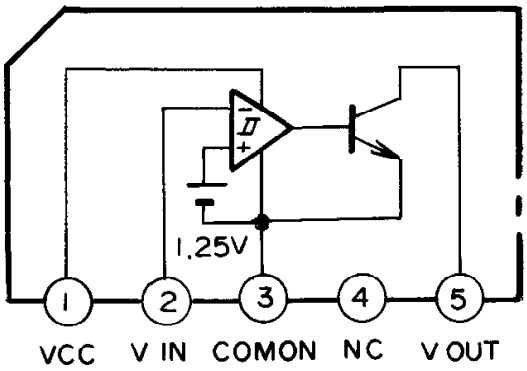


12.3. DC/DC Block

IC1 : C5HAAKH00001

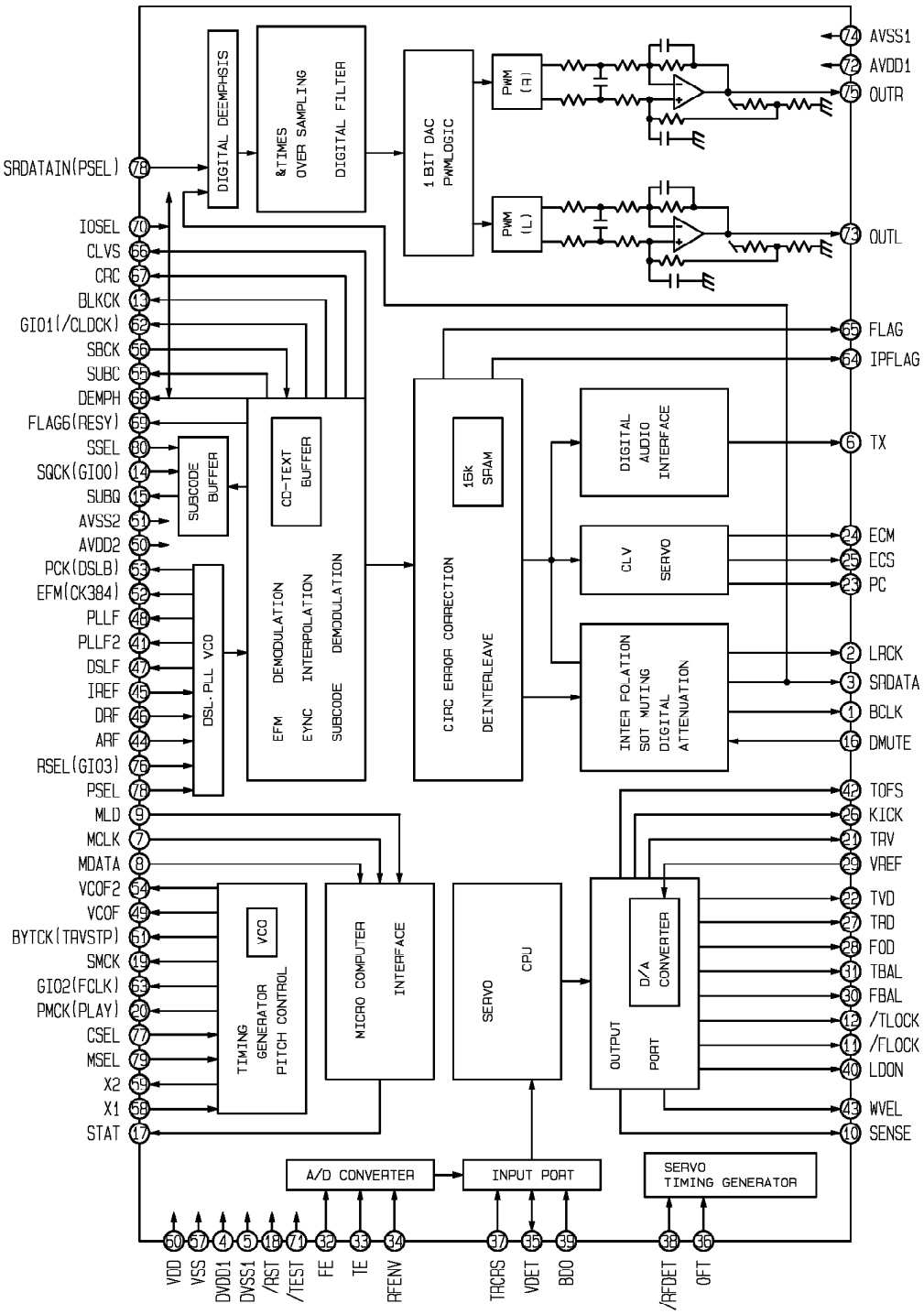


IC2 : YEAMM51945AF

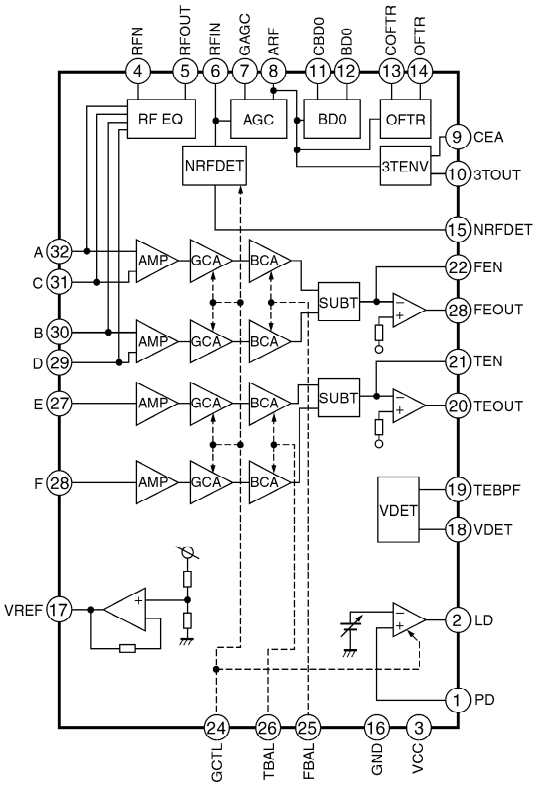


12.4. CD Servo Block

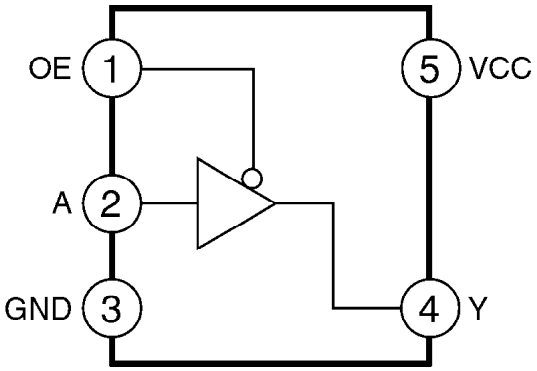
IC201 : MN6627482WB



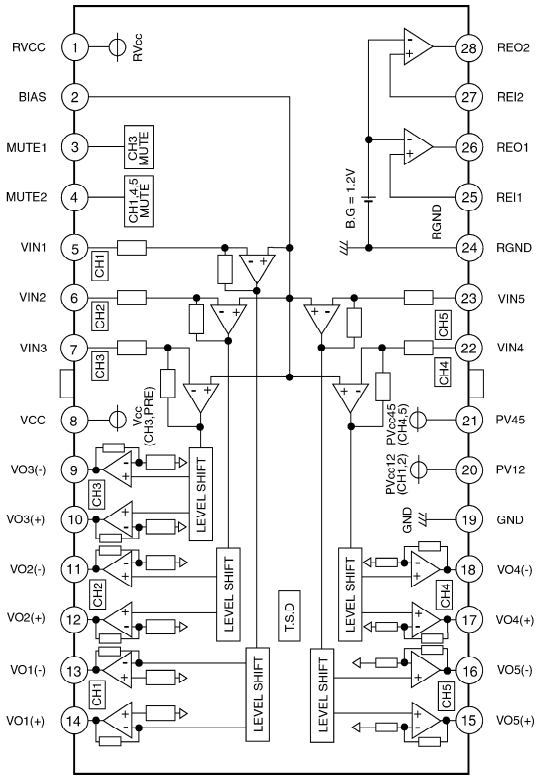
IC202 : YESAM163



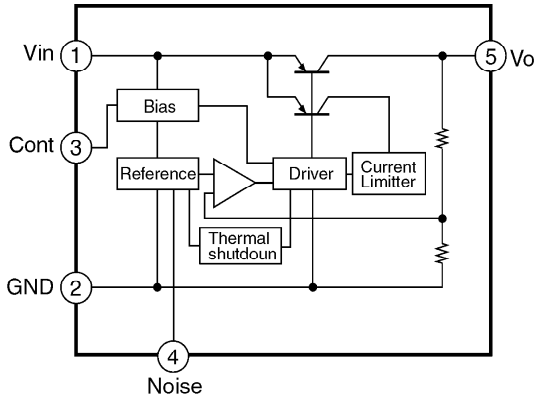
IC409 : YEASM167



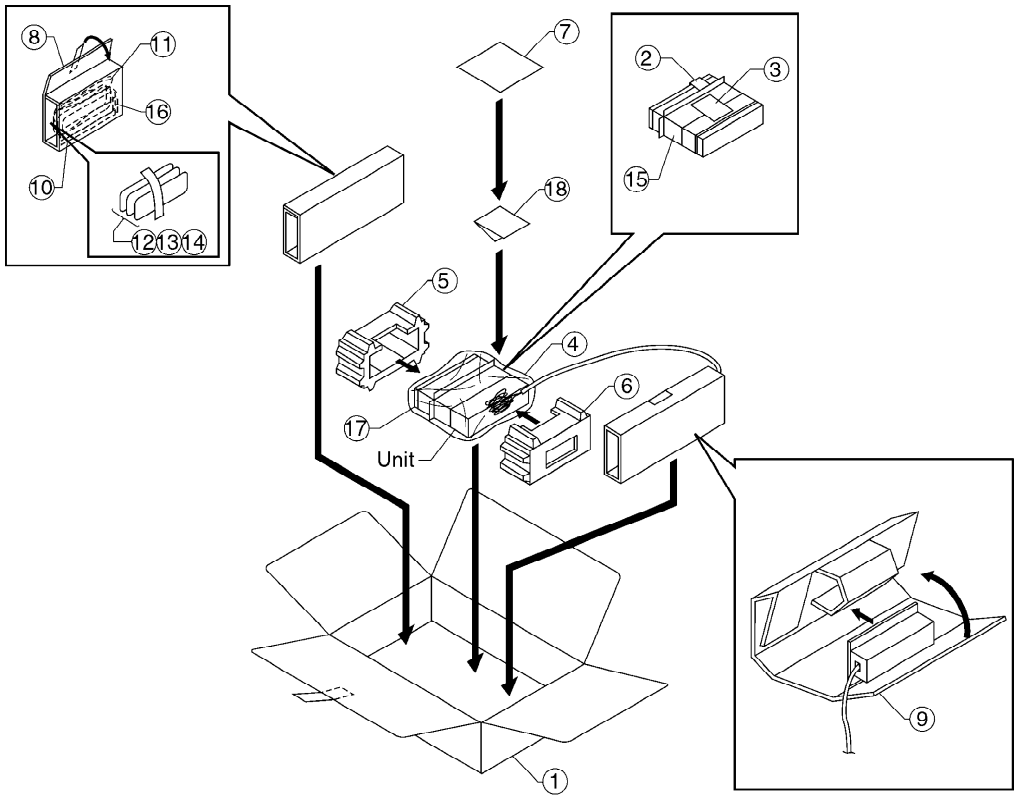
IC203 : YESAM166



IC411 : YEASM178



13. PACKING PARTS LIST



- Item numbers listed below should not order regular spare parts. (not available)

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
1	-	Inner Carton	1	Not available
2	-	Transport Label	1	Not available
3	-	EL Wire Label	1	Not available
4	-	Polyethylene Bag	1	Not available
5	-	Packing Pad Front	1	Not available
6	-	Packing Pad Rear	1	Not available
7	-	Instruction Kit	1	Not available
	YEFM284204	Operating Instructions	(1)	
	-	Warranty Card for USA	(1)	Not available
	-	Warranty Card for Canada	(1)	Not available
	-	Service Center List	(1)	Not available

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
8	-	Sleeve	1	Not available
9	-	Sleeve DC-DC Converter	1	Not available
10	YEFA131646	Removable Face Plate Case	1	
11	YEAJ02871	Power Connector	1	
12	YEFX9992663	Remote Control Unit	1	
13	CR2025/1F	Lithium Battery	1	
14	YEP0FZ3158	Screw Kit (Nut , Screw , Bolt , Lock Cancel Plate)	1	
15	YEFX0215873	Mounting Collar	1	
16	YEFG04019	Rear Support Strap	1	
17	YEFC05605	Trim Plate	1	
18	YEP0FZ3406	Security Screw Kit	1	

14. REPLACEMENT PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.

2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

    - Order intake period is basically six months after the first shipment.

5. "A" or "B" marks in remarks column are indicated as follows :

    - A : CQ-C9800U
    - B : CQ-C9700U

Ref. No.	Part No.	Part Name & Description	Remarks
[E6998] Main/Connector Block			
IC's AND TRANSISTORs			
IC101	C5BZ00000006	IC	
IC201	C0ABBB000090	IC	
IC205	C1BB00000650	IC	
IC206	C1BB00000650	IC	
IC271	C1BA00000369	IC	
IC301	C0ABBB000090	IC	
IC305	C1BB00000650	IC	
IC401	C0ABBB000090	IC	
IC501	YEAMT7ST08UL	IC	
IC551	YEAMC14584BE	IC	
IC601	C2CBKG000017	IC	
IC602	C3GBCC000001	IC	
IC651	AN8065SE1	IC	
IC701	C0DBABZ00002	IC	
IC702	C0DBAZG00028	IC	
IC703	C0CBCBG00002	IC	
IC704	C0CAAYG00005	IC	
IC705	C0CAAYG00005	IC	
IC706	YEAMC78L08E2	IC	
IC791	C0GBG0000032	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
IC801	C2HBCH000002	IC	
IC802	C0DBFFG00004	IC	
IC901	C0CBABC00037	IC	
IC902	YEAMT7ST08UL	IC	
PA51	C5BA00000114	Electronic Tuner	
Q201	B1GBHBEA0004	Transistor	
Q202	B1GDCFJJ0002	Transistor	
Q221	B1GBHBEA0004	Transistor	
Q222	B1GDCFJJ0002	Transistor	
Q301	B1GBHBEA0004	Transistor	
Q302	B1GDCFJJ0002	Transistor	
Q321	B1GBHBEA0004	Transistor	
Q322	B1GDCFJJ0002	Transistor	
Q401	B1GBHBEA0004	Transistor	
Q402	B1GDCFJJ0002	Transistor	
Q501	YEANC114YKX	Transistor	
Q601	YEANC114YKX	Transistor	
Q602	YEANC114YKX	Transistor	
Q604	YEANC114YKX	Transistor	
Q605	B1GDCFJJ0002	Transistor	
Q606	YEANC114YKX	Transistor	
Q701	YEANC114YKX	Transistor	
Q702	YEANHQ1F3PT1	Transistor	
Q703	YEANC114YKX	Transistor	
Q704	YEANC114YKX	Transistor	
Q705	YEANHQ1F3PT1	Transistor	
Q707	B1GBCFNN0004	Transistor	
Q708	B1GBCFNN0004	Transistor	
Q709	B1BBAC000007	Transistor	
Q710	B1BBAC000007	Transistor	
Q711	YEANC114YKX	Transistor	
Q712	B1BBAC000007	Transistor	
Q713	YEANHQ1F3PT1	Transistor	
Q714	B1DFDG000006	Transistor	
Q715	B1BBAC000007	Transistor	
Q716	B1DFDG000006	Transistor	
Q717	B1BBCG000006	Transistor	
Q718	YEANHQ1F3PT1	Transistor	
Q719	B1GBCFNN0004	Transistor	
Q720	YEANHR1F3PT1	Transistor	
Q721	YEANC114YKX	Transistor	
Q791	B1GBCFNN0004	Transistor	
Q901	B1GDCFJJ0002	Transistor	
Q902	B1GBCFNN0004	Transistor	
DIODEs			
D101	MA721TX	Diode	
D271	MA736TX	Diode	
D272	MA736TX	Diode	
D273	MA736TX	Diode	
D274	MA736TX	Diode	
D281	MA736TX	Diode	
D282	MA736TX	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D283	MA736TX	Diode	
D284	MA736TX	Diode	
D371	MA736TX	Diode	
D372	MA736TX	Diode	
D373	MA736TX	Diode	
D374	MA736TX	Diode	
D381	MA736TX	Diode	
D382	MA736TX	Diode	
D383	MA736TX	Diode	
D384	MA736TX	Diode	
D551	MA3X152A0L	Diode	
D552	MA721TX	Diode	
D701	YEADDAM3MA47	Diode	
D702	MA3X152A0L	Diode	
D703	MA3X74000L	Diode	
D704	YEADRD56M3T1	Diode	
D705	MA736TX	Diode	
D706	MA3X152K0L	Diode	
D707	YEADRD82M3T1	Diode	
D708	B0BC9R600001	Diode	
D709	MA721TX	Diode	
D710	MA2J72900L	Diode	
D711	MA721TX	Diode	
D712	MA2J72900L	Diode	
D713	MA721TX	Diode	
D714	MA2J72900L	Diode	
D715	YEADRD56M3T1	Diode	
D716	MA2J72900L	Diode	
D717	MA736TX	Diode	
D718	MA736TX	Diode	
D719	YEADRD56M3T1	Diode	
D720	MA736TX	Diode	
D721	MA736TX	Diode	
D792	YEADRD30M2T1	Diode	
D793	YEADRD51M2T1	Diode	
D901	MA3X152K0L	Diode	
D902	MA8056LMHTX	Diode	
D903	MA8056LMHTX	Diode	
D904	MA8056LMHTX	Diode	
D905	MA8056LMHTX	Diode	
D906	MA8056LMHTX	Diode	
D907	B3AAB0000143	Diode	
CAPACITORs			
C55	F1J1C1050013	Ceramic, 1 μ F 16WV	
C56	F1J1C1050013	Ceramic, 1 μ F 16WV	
C201	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C202	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C203	F1H1H152A201	Ceramic, 1500PF 50WV	
C204	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C206	F1H1H152A201	Ceramic, 1500PF 50WV	
C207	F1J1H122A675	Ceramic, 1200PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C208	F1J1H122A675	Ceramic, 1200PF 50WV	
C211	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C212	F1J1H101A672	Ceramic, 100PF 50WV	
C213	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C214	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C215	F1J1H221A665	Ceramic, 220PF 50WV	
C216	ECEA1CKS470I	Electrolytic, 47 μ F 16WV	
C221	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C222	F1J1H101A672	Ceramic, 100PF 50WV	
C223	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C224	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C225	F1J1H221A665	Ceramic, 220PF 50WV	
C251	YECUZ1H221JC	Ceramic, 220PF 50WV	
C252	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C253	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C261	YECUZ1H221JC	Ceramic, 220PF 50WV	
C268	F1J1H152A675	Ceramic, 1500PF 50WV	
C269	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C271	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C272	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C273	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C274	ECQV1H104JL2	Plastic Film, 0.1 μ F 50WV	
C278	F1J1H152A675	Ceramic, 1500PF 50WV	
C281	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C282	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C283	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C284	ECQV1H104JL2	Plastic Film, 0.1 μ F 50WV	
C288	F1J1H152A675	Ceramic, 1500PF 50WV	
C289	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C291	F1J1H681A672	Ceramic, 680PF 50WV	
C293	F1J1H681A672	Ceramic, 680PF 50WV	
C295	F1J1H681A672	Ceramic, 680PF 50WV	
C297	F1H1H6810007	Ceramic, 680PF 50WV	
C301	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C303	F1H1H152A201	Ceramic, 1500PF 50WV	
C304	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C305	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C306	F1H1H152A201	Ceramic, 1500PF 50WV	
C307	F1J1H122A675	Ceramic, 1200PF 50WV	
C308	F1J1H122A675	Ceramic, 1200PF 50WV	
C311	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C312	F1J1H101A672	Ceramic, 100PF 50WV	
C313	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C314	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C315	F1J1H221A665	Ceramic, 220PF 50WV	
C316	ECEA1CKS470I	Electrolytic, 47 μ F 16WV	
C321	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C322	F1J1H101A672	Ceramic, 100PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C323	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C324	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C325	F1J1H221A665	Ceramic, 220PF 50WV	
C351	YECUZ1H221JC	Ceramic, 220PF 50WV	
C352	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C353	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C361	YECUZ1H221JC	Ceramic, 220PF 50WV	
C368	F1J1H152A675	Ceramic, 1500PF 50WV	
C369	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C371	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C372	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C373	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C374	ECQV1H104JL2	Plastic Film, 0.1 μ F 50WV	
C381	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C382	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C383	ECQV1H474JL2	Plastic Film, 0.47 μ F 50WV	
C384	ECQV1H104JL2	Plastic Film, 0.1 μ F 50WV	
C388	F1J1H152A675	Ceramic, 1500PF 50WV	
C389	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C391	F1H1H6810007	Ceramic, 680PF 50WV	
C393	F1J1H681A672	Ceramic, 680PF 50WV	
C395	F1J1H681A672	Ceramic, 680PF 50WV	
C397	F1J1H681A672	Ceramic, 680PF 50WV	
C401	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C402	F1J1H101A672	Ceramic, 100PF 50WV	
C403	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C404	ECEA1HKS3R3I	Electrolytic, 3.3 μ F 50WV	
C406	YECUZ1H221JC	Ceramic, 220PF 50WV	
C407	ECEA1CKS470I	Electrolytic, 47 μ F 16WV	
C408	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C409	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C411	YECUS1E223KX	Ceramic, 0.022 μ F 25WV	
C416	YECUZ1H221JC	Ceramic, 220PF 50WV	
C451	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C452	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C501	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C551	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C552	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C561	F1H1H4710003	Ceramic, 470PF 50WV	
C562	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C563	F1J1H471A665	Ceramic, 470PF 50WV	
C564	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C565	F1H1H4710003	Ceramic, 470PF 50WV	
C566	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C567	F1H1H4710003	Ceramic, 470PF 50WV	
C568	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C570	F1H1H4710003	Ceramic, 470PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C571	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C572	F1H1H4710003	Ceramic, 470PF 50WV	
C573	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C574	F1H1H4710003	Ceramic, 470PF 50WV	
C575	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C576	F1H1H4710003	Ceramic, 470PF 50WV	
C577	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C600	F1J1C1050013	Ceramic, 1 μ F 16WV	
C601	EECS0HD473H	Electrolytic, 0.047 μ F 5.5WV	
C602	ECEA0JKS331I	Electrolytic, 330 μ F 6.3WV	
C603	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C604	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C605	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C606	YECUS1H150JC	Ceramic, 15PF 50WV	
C607	YECUS1H150JC	Ceramic, 15PF 50WV	
C608	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C614	ECEA1HKS010I	Electrolytic, 1 μ F 50WV	
C652	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C654	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C700	EEUFK1E561L	Electrolytic, 560 μ F 25WV	
C701	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C702	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C704	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C705	F2A1E2220043	Electrolytic, 2200 μ F 25WV	
C706	YECUX1C334KX	Ceramic, 0.33 μ F 16WV	
C707	EEAFC1C560H	Electrolytic, 56 μ F 16WV	
C708	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C709	ECEA1VKS100I	Electrolytic, 10 μ F 35WV	
C710	ECEA1VKS100I	Electrolytic, 10 μ F 35WV	
C711	YECUS1C334KX	Ceramic, 0.33 μ F 16WV	
C712	EEAFC1C560H	Electrolytic, 56 μ F 16WV	
C713	F1J1E2240009	Ceramic, 0.22 μ F 25WV	
C715	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C716	F1J1H110A034	Ceramic, 11PF 50WV	
C717	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C718	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C719	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C720	EEAFC1A820H	Electrolytic, 82 μ F 10WV	
C721	EEFCD0J470R	Electrolytic, 47 μ F 6.3WV	
C722	F1J1A2250004	Ceramic, 2.2 μ F 10WV	
C723	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C724	EEAFC1C560H	Electrolytic, 56 μ F 16WV	
C725	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C726	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C727	ECEA1HKS4R7I	Electrolytic, 4.7 μ F 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C728	ECEA1AKS470I	Electrolytic, 47 μ F 10WV	
C729	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C730	YECUS1C224KX	Ceramic, 0.22 μ F 16WV	
C731	F1J1C1050013	Ceramic, 1 μ F 16WV	
C732	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C733	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C734	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C735	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C736	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C737	F1J1C1050013	Ceramic, 1 μ F 16WV	
C738	F1J1H472A675	Ceramic, 4700PF 50WV	
C739	F1H1E123A011	Ceramic, 0.012 μ F 25WV	
C740	F1H1H222A190	Ceramic, 2200PF 50WV	
C741	ECEA1AKS101I	Electrolytic, 100 μ F 10WV	
C742	YECUZ1C393KX	Ceramic, 0.039 μ F 16WV	
C743	ECEA1AKS101I	Electrolytic, 100 μ F 10WV	
C745	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C746	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C747	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C748	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C749	EEFCD0J470R	Electrolytic, 47 μ F 6.3WV	
C750	F1J1A2250004	Ceramic, 2.2 μ F 10WV	
C751	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C752	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C753	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C754	YECUS1C224KX	Ceramic, 0.22 μ F 16WV	
C755	YECUZ1H330JC	Ceramic, 33PF 50WV	
C756	ECA1CDT222U	Electrolytic, 2200 μ F 16WV	
C757	YECUZ1C393KX	Ceramic, 0.039 μ F 16WV	
C758	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C759	ECEA1HKS4R7I	Electrolytic, 4.7 μ F 50WV	
C760	YECUZ1H182KX	Ceramic, 1800PF 50WV	
C761	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C762	ECA1CM471	Electrolytic, 470 μ F 16WV	
C763	F1J1H392A675	Ceramic, 3900PF 50WV	
C764	EEFCD0J470R	Electrolytic, 47 μ F 6.3WV	
C765	EEFCD0J470R	Electrolytic, 47 μ F 6.3WV	
C766	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C767	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C768	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C769	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C770	ECA1CM471	Electrolytic, 470 μ F 16WV	
C771	F1J1H1040014	Ceramic, 0.1 μ F 50WV	
C772	F1J1H1040014	Ceramic, 0.1 μ F 50WV	
C773	F1J1H1040014	Ceramic, 0.1 μ F 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C774	F1J1H1040014	Ceramic, 0.1 μ F 50WV	
C775	F1J1H1040014	Ceramic, 0.1 μ F 50WV	
C776	F1J1H1040014	Ceramic, 0.1 μ F 50WV	
C777	F1J1H1040014	Ceramic, 0.1 μ F 50WV	
C778	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C779	F1J1H1040014	Ceramic, 0.1 μ F 50WV	
C780	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C781	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C782	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C783	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C784	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C785	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C786	ECEA1AKS100I	Electrolytic, 10 μ F 10WV	
C791	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C792	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C793	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C794	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C795	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C796	ECJ2FB1E475M	Ceramic, 4.7 μ F 25WV	
C797	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C798	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C805	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C806	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C807	F1H1H101A231	Ceramic, 100PF 50WV	
C808	F1H1H101A231	Ceramic, 100PF 50WV	
C809	F1J1E1050004	Ceramic, 1 μ F 25WV	
C810	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C813	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C814	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C815	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C817	ECEA1AKS100I	Electrolytic, 10 μ F 10WV	
C818	EEAFC0J560H	Electrolytic, 56 μ F 6.3WV	
C819	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C820	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C822	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C824	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C825	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C826	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C828	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C829	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C831	ECA0JM102	Electrolytic, 1000 μ F 6.3WV	
C832	F1J1H1020024	Ceramic, 1000PF 50WV	
C833	F1J1H1020024	Ceramic, 1000PF 50WV	
C834	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C835	F1J1H181A672	Ceramic, 180PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C837	YECUZ1H150JC	Ceramic, 15PF 50WV	
C838	YECUZ1H150JC	Ceramic, 15PF 50WV	
C839	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C840	F1J1H181A672	Ceramic, 180PF 50WV	
C841	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C842	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C843	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C844	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C845	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C847	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C849	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C850	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C851	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C852	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C853	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C854	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C901	ECEA1AKS100I	Electrolytic, 10 μ F 10WV	
C902	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C903	ECEA1CKS470I	Electrolytic, 47 μ F 16WV	
C904	F1J1C1050013	Ceramic, 1 μ F 16WV	
C905	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C906	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C907	ECEA1AKS100I	Electrolytic, 10 μ F 10WV	
C908	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C909	ECEA1EKS4R7I	Electrolytic, 4.7 μ F 25WV	
RESISTORs			
J801	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
L714	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R54	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R58	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R201	ERJ6GEYJ822	Chip, 8.2k Ω 1/10W	
R202	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R203	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R204	ERJ6GEYJ822	Chip, 8.2k Ω 1/10W	
R205	ERJ6GEYJ392	Chip, 3.9k Ω 1/10W	
R208	ERJ3GEYJ182V	Chip, 1.8k Ω 1/16W	
R209	ERJ3GEYJ182V	Chip, 1.8k Ω 1/16W	
R211	ERJ3GEYJ682V	Chip, 6.8k Ω 1/16W	
R212	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R214	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R215	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R216	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R217	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R221	ERJ3GEYJ682V	Chip, 6.8k Ω 1/16W	
R222	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R224	ERJ6GEYJ393	Chip, 39k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R225	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R226	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R227	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R228	ERJ3GEYJ562V	Chip, 5.6k Ω 1/16W	
R229	ERJ3GEYJ562V	Chip, 5.6k Ω 1/16W	
R271	ERG2SJ100	Metal Oxid, 10 Ω 2W	
R281	ERG2SJ100	Metal Oxid, 10 Ω 2W	
R291	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R293	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R295	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R297	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R301	ERJ6GEYJ822	Chip, 8.2k Ω 1/10W	
R302	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R304	ERJ6GEYJ822	Chip, 8.2k Ω 1/10W	
R305	ERJ6GEYJ392	Chip, 3.9k Ω 1/10W	
R307	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R308	ERJ3GEYJ182V	Chip, 1.8k Ω 1/16W	
R309	ERJ3GEYJ182V	Chip, 1.8k Ω 1/16W	
R311	ERJ3GEYJ682V	Chip, 6.8k Ω 1/16W	
R312	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R314	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R315	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R316	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R317	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R321	ERJ3GEYJ682V	Chip, 6.8k Ω 1/16W	
R322	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R324	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R325	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R326	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R327	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R328	ERJ3GEYJ562V	Chip, 5.6k Ω 1/16W	
R329	ERJ3GEYJ562V	Chip, 5.6k Ω 1/16W	
R371	ERG2SJ100	Metal Oxid, 10 Ω 2W	
R381	ERG2SJ100	Metal Oxid, 10 Ω 2W	
R391	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R393	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R395	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R397	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R401	ERJ3GEYJ682V	Chip, 6.8k Ω 1/16W	
R402	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R404	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R405	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R406	ERJ3GEYJ560V	Chip, 56 Ω 1/16W	
R407	ERJ3GEYJ223V	Chip, 22k Ω 1/16W	
R411	ERJ6GEYJ182	Chip, 1.8k Ω 1/10W	
R428	ERJ3GEYJ562V	Chip, 5.6k Ω 1/16W	
R501	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R502	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R551	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R552	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R553	ERJ6GEYJ104	Chip, 100k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R554	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R555	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R556	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R557	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R558	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R601	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R602	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R603	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R604	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R605	ERJ6GEYJ512V	Chip, 5.1k Ω 1/10W	
R606	ERJ3GEYJ512V	Chip, 5.1k Ω 1/16W	
R607	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R608	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R609	ERJ3GEYJ272V	Chip, 2.7k Ω 1/16W	
R610	ERJ3GEYJ512V	Chip, 5.1k Ω 1/16W	
R611	ERJ6GEYJ512V	Chip, 5.1k Ω 1/10W	
R612	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R613	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R614	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R615	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R617	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R618	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R619	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R620	ERJ3GEYJ272V	Chip, 2.7k Ω 1/16W	
R621	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R622	ERJ6GEYJ272	Chip, 2.7k Ω 1/10W	
R623	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R626	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R627	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R628	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R629	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R630	ERJ6GEYJ272	Chip, 2.7k Ω 1/10W	
R631	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R632	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R633	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R634	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R635	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R636	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R637	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R638	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R639	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R640	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R641	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R642	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R643	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R644	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R645	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R646	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R650	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R651	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R652	ERJ6GEYJ333	Chip, 33k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R653	ERJ6GEYJ224	Chip, 220k Ω 1/10W	
R654	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R701	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R702	ERJ6GEYJ433V	Chip, 43k Ω 1/10W	
R703	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R704	ERJ6GEYJ224	Chip, 220k Ω 1/10W	
R705	ERJ6GEYJ471	Chip, 470 Ω 1/10W	
R706	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R707	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R709	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R710	ERJ6ENF2201V	Chip, 2.2k Ω 1/10W	
R711	ERJ6ENF8201V	Chip, 8.2k Ω 1/10W	
R712	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R713	ERJ6ENF2701V	Chip, 2.7k Ω 1/10W	
R714	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R715	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R716	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R717	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R718	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R719	ERJ6ENF3301V	Chip, 3.3k Ω 1/10W	
R720	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
R721	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R722	ERJ6ENF5601V	Chip, 5.6k Ω 1/10W	
R723	ERJ6GEYJ1R0V	Chip, 1 Ω 1/10W	
R724	ERJ6ENF3901V	Chip, 3.9k Ω 1/10W	
R725	ERJ3GEYJ821V	Chip, 820 Ω 1/16W	
R726	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R727	ERJ6GEYJ1R0V	Chip, 1 Ω 1/10W	
R728	ERJ6GEYJ821	Chip, 820 Ω 1/10W	
R729	ERJ3GEYJ100V	Chip, 10 Ω 1/16W	
R731	ERJ6GEYJ153	Chip, 15k Ω 1/10W	
R732	ERJ6GEYJ153	Chip, 15k Ω 1/10W	
R733	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R737	ERJ6ENF1002	Chip, 10k Ω 1/10W	
R738	ERJ6ENF8201V	Chip, 8.2k Ω 1/10W	
R740	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R742	ERJ6ENF2201V	Chip, 2.2k Ω 1/10W	
R743	ERJ6ENF1303V	Chip, 130k Ω 1/10W	
R744	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
R745	ERJ6ENF1802V	Chip, 18k Ω 1/10W	
R746	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
R747	ERJ6ENF2203V	Chip, 220k Ω 1/10W	
R748	ERJ6ENF1503V	Chip, 150k Ω 1/10W	
R749	ERJ6ENF6802V	Chip, 68k Ω 1/10W	
R750	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R754	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R755	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R756	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R757	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R758	ERJ6ENF2201V	Chip, 2.2k Ω 1/10W	
R771	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R772	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R773	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R774	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R775	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R791	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R792	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R793	ERJ12YJ3R9H	Chip, 3.9 Ω 1/2W	
R794	ERJ3GEYJ152V	Chip, 1.5k Ω 1/16W	
R795	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
R801	ERJ3GEYJ180V	Chip, 18 Ω 1/16W	
R802	ERJ3GEYJ223V	Chip, 22k Ω 1/16W	
R803	ERJ3GEYJ223V	Chip, 22k Ω 1/16W	
R804	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R805	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R806	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R807	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R813	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R816	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R817	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R818	ERJ3GEYJ330V	Chip, 33 Ω 1/16W	
R819	ERJ3GEYJ330V	Chip, 33 Ω 1/16W	
R820	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R821	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R822	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R823	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R824	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R825	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R826	ERJ3GEYJ330V	Chip, 33 Ω 1/16W	
R828	ERJ3GEYJ331V	Chip, 330 Ω 1/16W	
R829	ERJ3GEYJ331V	Chip, 330 Ω 1/16W	
R833	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R834	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R835	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R836	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R837	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R838	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R842	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R843	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R901	ERJ3GEYJ821V	Chip, 820 Ω 1/16W	
R902	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R903	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R904	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R905	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R906	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R907	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R908	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R909	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R910	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
TH701	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
CONNECTORs			
CN401	K1KA40A00186	Connector, 40P	
CN501	K1MN18B00074	Connector, 18P	
CN551	K1HA149A0001	Connector, 7P	
CN552	YEAE012307	Connector, Din8P	
CN601	K1KB08A00068	Connector, 8P	
CN701	K1FA116B0028	Connector, 16P	
CN791	YEAE5339802	Connector, 2P	
CN901	K1MN16B00130	Connector, 16P	
COILs			
FB701	YELTBMHS800T	Coil	
FB702	YELTBMHS800T	Coil	
FB703	YELTBMHS800T	Coil	
FB704	YELTBMHS800T	Coil	
FB705	YELTBMHS800T	Coil	
FB706	YELTBMHS800T	Coil	
FB801	J0JCC0000090	Coil	
FB802	YELTBLM21A10	Coil	
FB803	YELTBLM21A10	Coil	
L53	YELTBLM21A10	Coil	
L54	YELTBLM21A10	Coil	
L211	G1CYYYZ00003	Coil	
L221	G1CYYYZ00003	Coil	
L251	G1CYYYZ00003	Coil	
L261	G1CYYYZ00003	Coil	
L271	G1B9R0J00001	Coil	
L281	G1B9R0J00001	Coil	
L311	G1CYYYZ00003	Coil	
L321	G1CYYYZ00003	Coil	
L351	G1CYYYZ00003	Coil	
L361	G1CYYYZ00003	Coil	
L371	G1B9R0J00001	Coil	
L381	G1B9R0J00001	Coil	
L401	G1CYYYZ00003	Coil	
L411	G1CYYYZ00003	Coil	
L601	YELT03N330JT	Coil	
L602	YELT03N330JT	Coil	
L603	YELT03N101JT	Coil	
L701	YELTBL01R1AT	Coil	
L702	YETQ026T164	Coil	
L703	J0JGC0000018	Coil	
L704	G1C330Z00006	Coil	
L705	G1C330Z00006	Coil	
L706	YELT03N220JT	Coil	
L707	G1C330Z00006	Coil	
L708	YELTBLM21A10	Coil	
L709	YELTBLM21A10	Coil	
L710	YELTBLM21A10	Coil	
L712	YELTBLM21A10	Coil	
L713	YELTBLM21A10	Coil	
L720	YELTBLM21A10	Coil	
L730	J0JKB0000005	Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L801	YELTBLM21A10	Coil	
L802	YELTBLM21A10	Coil	
L804	YELTBLM21A10	Coil	
L805	J0JGC0000018	Coil	
L806	J0JGC0000018	Coil	
L807	YELTBLM21A10	Coil	
L808	YELTBLM21A10	Coil	
L901	ELEAR330KA	Choke Coil	
R814	J0JCC0000090	Coil	
R815	J0JCC0000090	Coil	
SWITCHes			
SW601	K0L1BA000022	Switch	
SW602	K0L1BA000023	Switch	
CRYSTALs			
XL601	YEXL51N04190	Crystal Oscillator	
XL801	H0J416500001	Crystal Oscillator	
LAMPs			
Z51	YEAL02010T	Lamp	
FILTERs			
CF51	YEXC07T009	Filter	
THERMISTORs			
PT701	YERT7AR4R7MT	Thermistor	
[E9413] Display Block			
IC's AND TRANSISTORs			
IC900	C2DBKJ000187	IC	
IC901	C3FBPD000139	IC	
IC902	MN1382JP	IC	
IC903	B3MBZ0000006	IC	
Q901	B1GBCFNN0009	Transistor	
Q902	B1GDCFNN0002	Transistor	
Q903	B1GBCFNN0004	Transistor	
Q904	B1GBCFNN0004	Transistor	
Q913	YEANSSTA06T	Transistor	
Q914	YEANSSTA06T	Transistor	
DIODEs			
D901	MA8056LMHTX	Diode	
D903	MAZ80390LL	Diode	
D904	MA8056LMHTX	Diode	
D905	MA8056LMHTX	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D906	MAZ81800ML	Diode	
D907	B3AEB0000037	Diode	
D909	MA152WKTX	Diode	
D910	MAZ80390LL	Diode	
D911	MAZ80390LL	Diode	
D912	MAZ80390LL	Diode	
D913	MAZ80390LL	Diode	
D914	MAZ80390LL	Diode	
D916	MA721TX	Diode	
D917	MAZ80390LL	Diode	
D918	MAZ80390LL	Diode	
D919	MAZ80390LL	Diode	
D920	MAZ80390LL	Diode	
D921	MAZ80390LL	Diode	
CAPACITORs			
C901	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C902	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C903	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C904	ECST1CX106R	Tantalum, 10 μ F 16WV	
C905	F1H1H100A226	Ceramic, 10PF 50WV	
C906	F1H1H100A226	Ceramic, 10PF 50WV	
C907	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C908	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C909	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C910	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C911	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C912	ECST1CX106R	Tantalum, 10 μ F 16WV	
C913	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C914	YECUS1C105ZF	Ceramic, 1 μ F 16WV	
C915	YECUS1C105ZF	Ceramic, 1 μ F 16WV	
C916	F1J1H102A672	Ceramic, 1000PF 50WV	
C919	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C925	F2H1C2200001	Electrolytic, 22 μ F 16WV	
C926	F1J1H562A675	Ceramic, 5600PF 50WV	
C927	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C928	F0F2A2230001	Plastic Film, 0.022 μ F 100WV	
C929	F1L3F1200001	Ceramic, 12PF 3160WV	
C931	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C932	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C933	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C934	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C935	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C936	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C937	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C938	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C939	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C940	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C973	YECUZ1H103KX	Ceramic, 0.01 μF 50WV	
C974	YECUZ1H103KX	Ceramic, 0.01 μF 50WV	
RESISTORs			
FB901	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
FB902	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
FB903	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R901	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R902	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R903	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R904	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R905	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R906	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R907	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R908	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R909	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R910	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R911	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R912	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R913	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R914	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R915	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R916	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R917	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R918	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R919	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R920	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R921	ERJ3GEYJ274V	Chip, 270k Ω 1/16W	
R923	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R924	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R925	ERJ3GEYJ302V	Chip, 3k Ω 1/16W	
R926	ERJ3GEYJ302V	Chip, 3k Ω 1/16W	
R927	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R928	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R929	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R931	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R932	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R933	ERJ3GEYJ821V	Chip, 820 Ω 1/16W	
R934	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R935	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R936	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R937	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R938	ERJ3GEYJ124V	Chip, 120k Ω 1/16W	
R939	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R947	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R948	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R950	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R951	ERJ3GEYJ153V	Chip, 15k Ω 1/16W	
R953	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R954	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R961	ERJ6GEYJ681	Chip, 680 Ω 1/10W	
R962	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R963	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R969	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
CONNECTORs			
CN901	K1NZ16A00001	Connector, 16P	
CN902	K1MN40B00006	Connector, 40P	
COILs			
L907	G1C101M00014	Coil	
SWITCHes			
SW901	K9AA024A0009	Switch	
SW902	K0H1BA000445	Switch	
SW903	K0H1BA000445	Switch	
SW904	K0H1BA000445	Switch	
SW905	K0H1BA000445	Switch	
SW906	K0H1BA000445	Switch	
SW907	K0H1BA000445	Switch	
SW908	K0H1BA000445	Switch	
SW909	K0H1BA000445	Switch	
SW910	K0H1BA000445	Switch	
SW911	K0H1BA000445	Switch	
SW912	K0H1BA000445	Switch	
SW913	K0H1BA000445	Switch	
SW914	K0H1BA000445	Switch	
CRYSTALs			
XL900	H0J125500008	Crystal Oscillator	
LCD			
LCD901	L5F000000007	LCD	
NETWORK RESISTORs			
RA901	D1H822140004	Network Resistor	
RA902	D1H822140004	Network Resistor	
RA903	D1H822140004	Network Resistor	
RA904	D1H822140004	Network Resistor	
RA905	D1H822140004	Network Resistor	
RA906	D1H822140004	Network Resistor	
RA907	D1H822140004	Network Resistor	
RA908	D1H822140004	Network Resistor	
RA909	D1H822140004	Network Resistor	
RA910	D1H822140004	Network Resistor	
RA911	D1H822140004	Network Resistor	

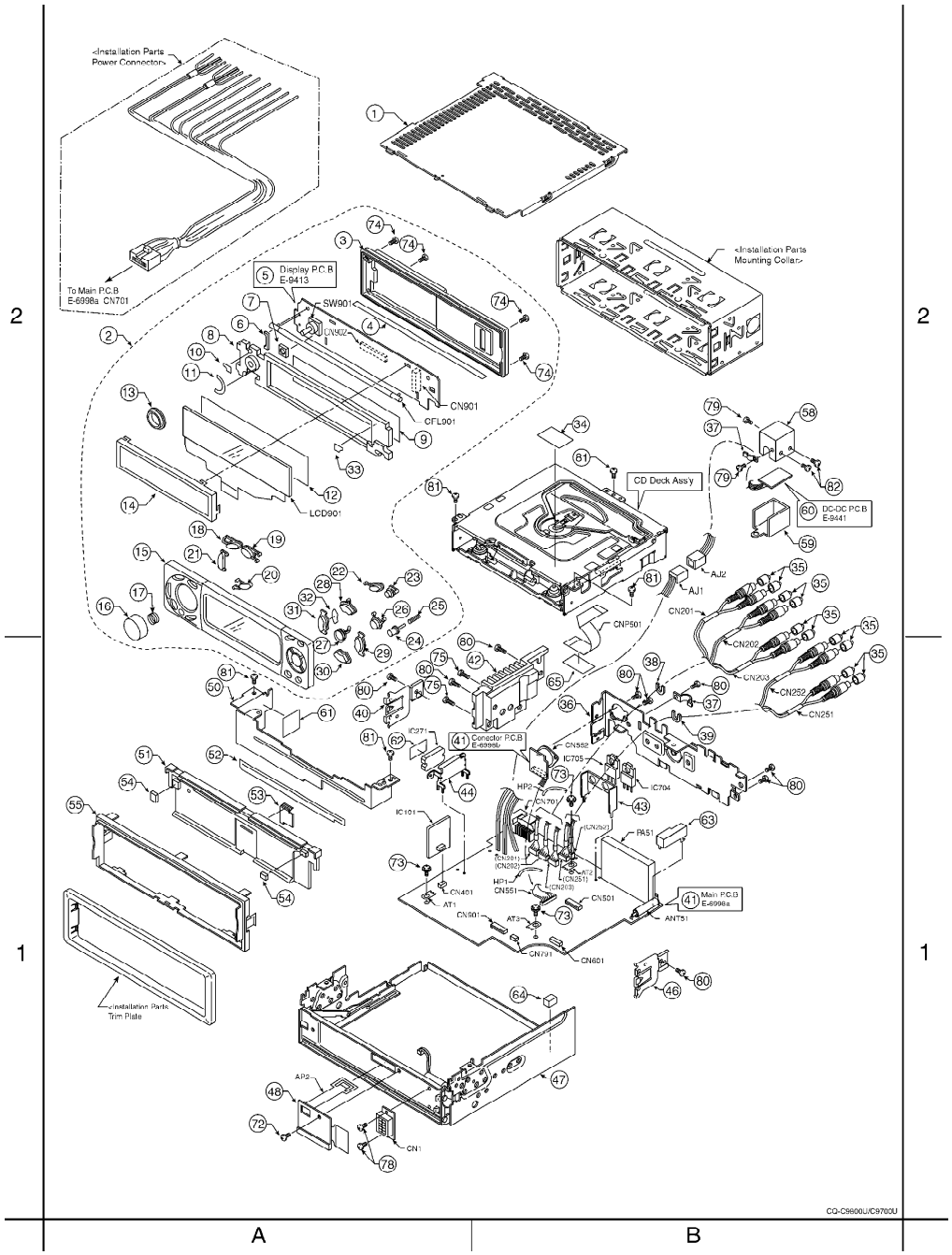
Ref. No.	Part No.	Part Name & Description	Remarks
THERMISTORs			
TH900	D4CC14730002	Thermistor	
TRANSFORMERs			
L908	G5C1AAA00001	Transformer	
DISPLAY TUBEs			
CFL901	A2CA00000044	Display Tube	
[E9441] DC-DC Block			
IC's AND TRANSISTORs			
IC1	C5HAAKH00001	IC HYBRID	
IC2	YEAMM51945AF	IC	
DIODEs			
D1	MA3X152K0L	Diode	
CAPACITORs			
C1	EEUFK1C392S	Electrolytic, 3900 μF 16WV	
C2	EEUFK1E332	Electrolytic, 3300 μF 25WV	
C3	ECA1HHG3R3I	Electrolytic, 3.3 μF 50WV	
C5	ECA1HHG2R2I	Electrolytic, 2.2 μF 50WV	
C6	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C8	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C9	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C10	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C11	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C12	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C13	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C14	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C15	F1J1H103A513	Ceramic, 0.01 μF 50WV	
RESISTORs			
R1	ERJ6GEYJ224	Chip, 220k Ω 1/10W	
R2	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R3	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R4	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R5	ERJ6GEYJ565V	Chip, 5.6M Ω 1/10W	B
R7	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
COILs			
L1	YETQ022T161	Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L2	YELTB2R2RT	Coil	
L3	YELTB2R2RT	Coil	
L4	YELTB2R2RT	Coil	
L5	YELT03N330JT	Coil	
Accessories			
PRINTINGs			
	YEFM284204	Operating Instructions	
INSTALLATION PARTs			
	YEFA131646	Removable Face Plate Case	
	YEAJ02871	Power Connector	
	YEFX9992663	Remote Control Unit	
	CR2025/1F	Lithium Battery	⚠
	YEP0FZ3158	Screw Kit (Nut, Screw, Bolt, Lock Cancel Plate)	
	YEFX0215873	Mounting Collar	
	YEFG04019	Rear Support Strap	
	YEFC05605	Trim Plate	
	YEP0FZ3406	Security Screw Kit	
Mechanical Parts			
MISCELLANEOUS			
ANT51	YGAA10082	Antenna Receptacle	
CN1	K1NZ16H00001	Connector, 16P	
CN201	K2KF29Z00024	Plug, 4P	
CN202	K2KF29Z00025	Plug, 4P	
CN203	YEAJ011604	Plug, 4P	
CN251	YEAE012503	Plug, 4P	
CN252	K2KF29Z00013	Plug, 4P	
CNP501	K9ZZ00001141	Flat Cable, 18P	
AJ1	YEAJ02895	Power Cord With Plug / (Main Block)	
AJ2	YEAJ02896	Power Cord With Plug / (DC-DC Block)	
AP2	YEAP2879	Flexible PCB	
AT1	K4ZZ01000048	Terminal	
AT2	K4ZZ01000048	Terminal	
AT3	K4ZZ01000048	Terminal	
HP1	K4ZZ01000044	Terminal	
HP2	YEAT03324	Terminal	
1	YEFA031904	Upper Cover	
2	YEP0FX5514	Removable Face Plate Unit	RTL A
2	YEP0FX5517	Removable Face Plate Unit	RTL B
3	YEFA131825	Back Cover, Detachable	
4	YEFV021965	Magnetic Shield	
5	YEP0PT9413W9	Display PCB w/Component	RTL
6	YEFK061121	Holder	
7	YEFK061115	Holder	
8	YEFX0012362	Transparent Plate	
9	YEFX9993012	Shad	
10	YEFV021963	Optical Shade	
11	YEFV022002	Color Screen	

Ref. No.	Part No.	Part Name & Description	Remarks
12	YEFV021977	Optical Shade, LCD901	
13	YEFX0012367	Transparent Plate, VOL	
14	YEFX0216286	Case, LCD901	
15	YESFC02142	Escutcheon Ass'y, Detachable	A
15	YESFC02145	Escutcheon Ass'y, Detachable	B
16	YEFE07520	Knob, VOLUME	
17	YEFX0052572	Moving Plate	
18	YEFE137877	Button, MUTE	
19	YEFE137900	Button, SQ	
20	YEFE137901	Button, D.M	
21	YEFE137899	Button, SOURCE	
22	YEFE137897	Button, MENU	
23	YEFE137891	Button, CD EJECT	
24	YEFE137903A	Button, Releas	
25	YEFX0052729	Spring	
26	YEFE137898	Button, DISP	
27	YEFE137887	Button, BAND/SET/APM	
28	YEFE137879	Button, P.SET UP	
29	YEFE137895	Button, TUNE/TRACK >	
30	YEFE137883	Button, P.SET DOWN	
31	YEFE137896	Button, TUNE/TRACK <	
32	YEFV021975	Optical Shade	
33	YEFV021964	Optical Shade	
34	YEFM031414	Laser Seal	
35	YEFR04187	Cap	
36	YEFA08601	Rear Plate	
37	YEFX007677	Clamper, AJ2	
37	YEFX007677	Clamper, AJ1	
38	YEFX007676	Clamper, CN201, CN202, CN203	
39	YEFX007685	Clamper, CN251, CN252	
40	YEFX0216132	Bracket (L)	
41	YEP0PT6998Z9	Main PCB w/Component	RTL A
41	YEP0PT6998Y9	Main PCB w/Component	RTL B
42	YEFF011149	Heat Sink	
43	YEFX0216310	Bracket, IC704,IC705	
44	YEFX0216309	Bracket, IC271	
46	YEFX0216133	Bracket (R)	
47	YEP9FX215	Drive Mechanism Ass'y	
48	YEFA131827	Flexible PCB Case	
50	YEFA07669	Front Plate	
51	YEFC028113	Rear Cover, Escutcheon	
52	YEFS02431	Pad, Escutcheon	
53	YEFX0012368	Transparent Plate, Escutheon	
54	YEFS012112	Pad, Escutcheon	
55	YEFC028112	Front Cover, Escutcheon	
58	YEFA032002	Upper Cover, DC-DC Converter	
59	YEFA131904	Case, DC-DC Converter	
60	YEP0PT9441Z9	DC-DC Conv. PCB w/Component	RTL A
60	YEP0PT9441Y9	DC-DC Conv. PCB w/Component	RTL B
61	YEFS012118	Pad	
62	YEFV012416	Insulator, IC271	
63	YEFV03900	Magnetic Shield, ANT51	
64	YEFX9995188	Earth Pad / (Drive Mechanism Ass'y)	
65	YEFV012415	Insulator, CNP501	

Ref. No.	Part No.	Part Name & Description	Remarks
72	YEJS06404	Binding Screw	
73	YEJT03333	Tapping Screw	
74	XQN2+BG8FZ	Tapping Screw, M2*8	
75	XSB3+8FX	Binding Screw, M3*8	
76	XSB26+8FX	Binding Screw, M2.6*8	
78	XQN2+C4FZ	Binding Screw, M2*4	
79	XTB3+8FFX	Screw, M3x8	
80	XTB3+6FFX	Screw, M3x6	
81	XTB26+6FFX	Tapping Screw, M2.6*6	
82	YEJS05016	Screw w/Washer	

15. EXPLODED VIEW (Unit)



16. CD PLAYER PARTS LIST

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general**

location of the parts shown in the exploded drawing, as in a road map.

4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

   - Order intake period is basically six months after the first shipment.

Ref. No.	Part No.	Part Name & Description	Remarks
[3032-14-06] CD Servo Block			
IC's and TRANSISTORs			
IC201	MN6627482WB	IC	
IC202	YESAM163	IC	
IC203	YESAM166	IC	
IC401	YESAM176	IC	
IC402	YESAM250	IC	
IC406	YESAM171	IC	
IC409	YESAM167	IC	
IC411	YESAM178	IC	
Q101	B1BDBC000001	Transistor	
Q201	B1BDBC000001	Transistor	
Q501	YESAN072	Photo Transistor	
Q502	YESAN071	Transistor	
Q503	YESAN071	Transistor	
DIODEs			
PH501	LN57	LED	
CAPACITORs			
C101	YESCC203	Ceramic, 220pF 50WV	
C102	YESCC187	Ceramic, 0.1 μ F 25WV	
C103	YESCC187	Ceramic, 0.1 μ F 25WV	
C104	YESCC206	Ceramic, 0.047 μ F 25WV	
C105	F1H1H2220004	Ceramic, 0.0022 μ F 50WV	
C106	YESCC207	Ceramic, 0.001 μ F 50WV	
C107	YESCC206	Ceramic, 0.047 μ F 25WV	
C108	YESCC204	Ceramic, 330pF 50WV	
C109	YESCC187	Ceramic, 0.1 μ F 25WV	
C110	YESCC187	Ceramic, 0.1 μ F 25WV	
C111	YESCC299	Ceramic, 0.022 μ F 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C112	YESCC183	Ceramic, 0.0022 μ F 50WV	
C113	YESCC208	Ceramic, 0.0015 μ F 50WV	
C114	YESCC207	Ceramic, 0.001 μ F 50WV	
C115	YESCC187	Ceramic, 0.1 μ F 25WV	
C116	YESCC187	Ceramic, 0.1 μ F 25WV	
C121	YESCC269	Ceramic, 10 μ F 6.3WV	
C122	YESCC207	Ceramic, 0.001 μ F 50WV	
C123	YESCC299	Ceramic, 0.022 μ F 50WV	
C124	YESCC187	Ceramic, 0.1 μ F 25WV	
C125	YESCC207	Ceramic, 0.001 μ F 50WV	
C126	YESCC210	Ceramic, 0.1 μ F 16WV	
C127	YESCC207	Ceramic, 0.001 μ F 50WV	
C128	YESCC205	Ceramic, 0.22 μ F 10WV	
C129	YESCC187	Ceramic, 0.1 μ F 25WV	
C130	YESCC207	Ceramic, 0.001 μ F 50WV	
C131	YESCC187	Ceramic, 0.1 μ F 25WV	
C132	YESCC187	Ceramic, 0.1 μ F 25WV	
C135	YESCC187	Ceramic, 0.1 μ F 25WV	
C136	YESCC187	Ceramic, 0.1 μ F 25WV	
C139	YESCC187	Ceramic, 0.1 μ F 25WV	
C140	YESCC187	Ceramic, 0.1 μ F 25WV	
C141	YESCC187	Ceramic, 0.1 μ F 25WV	
C143	YESCC269	Ceramic, 10 μ F 6.3WV	
C144	YESCC269	Ceramic, 10 μ F 6.3WV	
C145	YESCC269	Ceramic, 10 μ F 6.3WV	
C146	YESCC269	Ceramic, 10 μ F 6.3WV	
C151	YESCC188	Electrolytic, 10 μ F 16WV	
C152	YESCC213	Electrolytic, 22 μ F 6.3WV	
C153	YESCC213	Electrolytic, 22 μ F 6.3WV	
C203	YESCC209	Ceramic, 0.0033 μ F 50WV	
C204	YESCC209	Ceramic, 0.0033 μ F 50WV	
C205	YESCC187	Ceramic, 0.1 μ F 25WV	
C207	YESCC187	Ceramic, 0.1 μ F 25WV	
C208	YESCC202	Ceramic, 22pF 50WV	
C251	YESCC215	Electrolytic, 220 μ F 10WV	
C252	YESCC214	Electrolytic, 47 μ F 6.3WV	
C253	YESCC215	Electrolytic, 220 μ F 10WV	
C401	YESCC187	Ceramic, 0.1 μ F 25WV	
C402	YESCC187	Ceramic, 0.1 μ F 25WV	
C403	YESCC187	Ceramic, 0.1 μ F 25WV	
C404	YESCC187	Ceramic, 0.1 μ F 25WV	
C405	YESCC187	Ceramic, 0.1 μ F 25WV	
C406	YESCC187	Ceramic, 0.1 μ F 25WV	
C407	YESCC187	Ceramic, 0.1 μ F 25WV	
C408	YESCC187	Ceramic, 0.1 μ F 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C409	YESCC269	Ceramic, 10 μ F 6.3WV	
C410	YESCC187	Ceramic, 0.1 μ F 25WV	
C411	YESCC187	Ceramic, 0.1 μ F 25WV	
C412	YESCC187	Ceramic, 0.1 μ F 25WV	
C413	YESCC187	Ceramic, 0.1 μ F 25WV	
C414	YESCC269	Ceramic, 10 μ F 6.3WV	
C418	YESCC187	Ceramic, 0.1 μ F 25WV	
C419	YESCC269	Ceramic, 10 μ F 6.3WV	
C420	YESCC269	Ceramic, 10 μ F 6.3WV	
C421	YESCC269	Ceramic, 10 μ F 6.3WV	
C422	YESCC269	Ceramic, 10 μ F 6.3WV	
C423	YESCC269	Ceramic, 10 μ F 6.3WV	
C424	YESCC269	Ceramic, 10 μ F 6.3WV	
C426	YESCC187	Ceramic, 0.1 μ F 25WV	
C433	YESCC269	Ceramic, 10 μ F 6.3WV	
C434	YESCC269	Ceramic, 10 μ F 6.3WV	
C435	YESCC187	Ceramic, 0.1 μ F 25WV	
C436	YESCC187	Ceramic, 0.1 μ F 25WV	
C437	YESCC210	Ceramic, 0.1 μ F 16WV	
C439	YESCC269	Ceramic, 10 μ F 6.3WV	
C440	YESCC269	Ceramic, 10 μ F 6.3WV	
C441	YESCC269	Ceramic, 10 μ F 6.3WV	
C442	YESCC269	Ceramic, 10 μ F 6.3WV	
C501	YESCC202	Ceramic, 22pF 50WV	
C551	YESCC214	Electrolytic, 47 μ F 6.3WV	
RESISTORs			
L302	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L303	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L304	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L305	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
J501	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
J502	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
JP101	ERJ8GEY0R00V	Chip, 0 Ω 1/4W	
R101	ERJ3GEYJ4R7V	Chip, 4.7 Ω 1/10W	
R103	YESRG067	Chip, 1.5k Ω 1/10W	
R104	YESRG077	Chip, 470 Ω 1/10W	
R105	YESRG074	Chip, 2.7k Ω 1/10W	
R106	YESRG025	Chip, 10k Ω 1/10W	
R107	YESRG074	Chip, 2.7k Ω 1/10W	
R108	YESRG076	Chip, 390k Ω 1/10W	
R109	YESRG069	Chip, 150k Ω 1/10W	
R110	YESRG025	Chip, 10k Ω 1/10W	
R111	YESRG070	Chip, 18k Ω 1/10W	
R113	YESRG066	Chip, 120k Ω 1/10W	
R114	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R115	YESRG022	Chip, 2.2k Ω 1/10W	

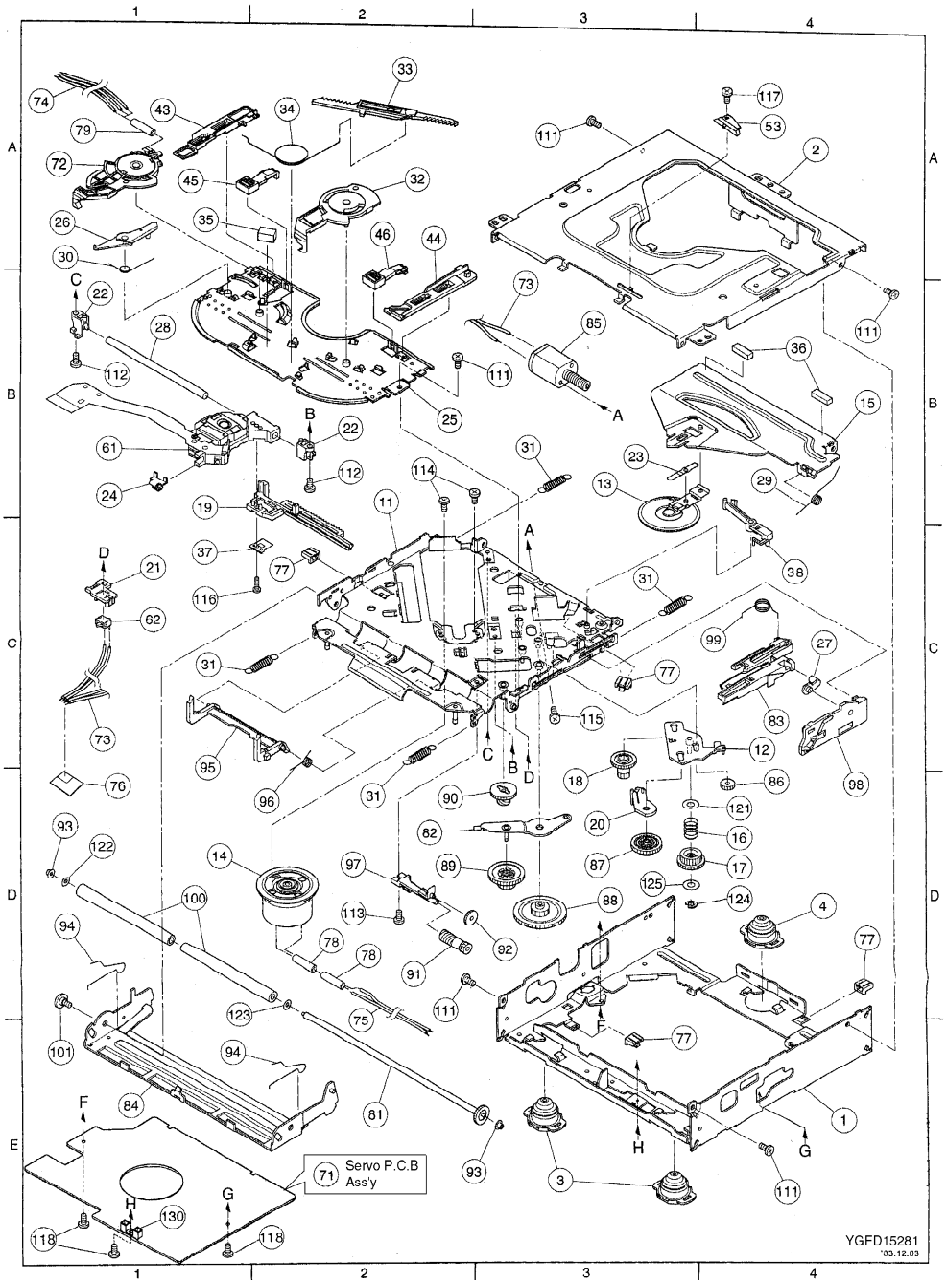
Ref. No.	Part No.	Part Name & Description	Remarks
R116	YESRG022	Chip, 2.2k Ω 1/10W	
R117	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R118	YESRG068	Chip, 15k Ω 1/10W	
R119	YESRG021	Chip, 1k Ω 1/10W	
R120	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R121	YESRG072	Chip, 220k Ω 1/10W	
R122	YESRG081	Chip, 56k Ω 1/10W	
R123	YESRG066	Chip, 120k Ω 1/10W	
R125	YESRG077	Chip, 470 Ω 1/10W	
R126	YESRG074	Chip, 2.7k Ω 1/10W	
R127	YESRG072	Chip, 220k Ω 1/10W	
R128	YESRG020	Chip, 220 Ω 1/10W	
R129	YESRG082	Chip, 6.8k Ω 1/10W	
R130	YESRG065	Chip, 1M Ω 1/10W	
R131	YESRG022	Chip, 2.2k Ω 1/10W	
R133	YESRG022	Chip, 2.2k Ω 1/10W	
R136	YESRG022	Chip, 2.2k Ω 1/10W	
R137	YESRG021	Chip, 1k Ω 1/10W	
R138	YESRG021	Chip, 1k Ω 1/10W	
R139	YESRG021	Chip, 1k Ω 1/10W	
R140	YESRG021	Chip, 1k Ω 1/10W	
R141	YESRG021	Chip, 1k Ω 1/10W	
R142	YESRG021	Chip, 1k Ω 1/10W	
R143	YESRG071	Chip, 2M Ω 1/10W	
R201	YESRG082	Chip, 6.8k Ω 1/10W	
R202	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R204	YESRG021	Chip, 1k Ω 1/10W	
R205	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R206	YESRG070	Chip, 18k Ω 1/10W	
R207	YESRG078	Chip, 5.1k Ω 1/10W	
R208	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R209	YESRG078	Chip, 5.1k Ω 1/10W	
R210	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R211	YESRG026	Chip, 27k Ω 1/10W	
R212	YESRG028	Chip, 47k Ω 1/10W	
R326	YESRG064	Chip, 100 Ω 1/10W	
R401	YESRG025	Chip, 10k Ω 1/10W	
R402	YESRG025	Chip, 10k Ω 1/10W	
R403	YESRG025	Chip, 10k Ω 1/10W	
R404	YESRG025	Chip, 10k Ω 1/10W	
R408	YESRG024	Chip, 4.7k Ω 1/10W	
R409	YESRG024	Chip, 4.7k Ω 1/10W	
R414	YESRG028	Chip, 47k Ω 1/10W	
R415	YESRG028	Chip, 47k Ω 1/10W	
R416	YESRG028	Chip, 47k Ω 1/10W	
R425	YESRG064	Chip, 100 Ω 1/10W	
R429	YESRG020	Chip, 220 Ω 1/10W	
R430	YESRG080	Chip, 560 Ω 1/10W	
R431	YESRG024	Chip, 4.7k Ω 1/10W	
R432	YESRG025	Chip, 10k Ω 1/10W	
R434	YESRG029	Chip, 100k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R435	YESRG024	Chip, 4.7k Ω 1/10W	
R436	YESRG064	Chip, 100 Ω 1/10W	
R478	YESRG079	Chip, 56 Ω 1/10W	
R480	YESRG079	Chip, 56 Ω 1/10W	
R481	YESRG024	Chip, 4.7k Ω 1/10W	
R482	YESRG022	Chip, 2.2k Ω 1/10W	
R483	YESRG022	Chip, 2.2k Ω 1/10W	
R501	YESRG020	Chip, 220 Ω 1/10W	
R502	YESRG081	Chip, 56k Ω 1/10W	
R503	YESRG025	Chip, 10k Ω 1/10W	
R504	YESRG075	Chip, 3.3k Ω 1/10W	
R505	YESRG068	Chip, 15k Ω 1/10W	
R506	YESRG028	Chip, 47k Ω 1/10W	
CONNECTORs			
CN101	YESAE367	Connector, 18P	
CN102	YESAE350	Connector, 16P	
COILs			
L401	YESLQ014	Coil	
L402	YESLQ014	Coil	
L403	YESLQ014	Coil	
L301	YESLQ011	Coil	
R428	YESLQ025	Inductor	
CRYSTAL			
X401	YESXL018	Crystal	
RESITOR NETWORKs			
RA401	YESXA003	Resistor Network, 56 ohms * 4	
RA402	YESXA003	Resistor Network, 56 ohms * 4	
RA403	YESXA003	Resistor Network, 56 ohms * 4	
RA405	YESXA003	Resistor Network, 56 ohms * 4	
RA406	YESXA003	Resistor Network, 56 ohms * 4	
RA407	YESXA003	Resistor Network, 56 ohms * 4	
RA408	YESXA003	Resistor Network, 56 ohms * 4	
RA409	YESXA003	Resistor Network, 56 ohms * 4	
RA410	YESXA003	Resistor Network, 56 ohms * 4	
RA413	YESXA003	Resistor Network, 56 ohms * 4	
RA412	YESXA002	Resistor Network, 100 ohms * 4	
RA414	YESXA002	Resistor Network, 100 ohms * 4	
MECHANICAL PARTS			
MISCELLANEOUS			
1	YESFX046136	Frame	
2	YESFX046137	Top Cover	
3	YERFS04003	Damper F	
4	YERFS04004	Damper R	

Ref. No.	Part No.	Part Name & Description	Remarks
11	YESFX046138	Chassis Rivet Ass'y	
12	YERFX046001	Change Plate Rivet Ass'y	
13	YERFX007001	Clamper Ass'y	
14	YESAK01041	Spindle Motor Ass'y	
15	YERFX046002	Clamper Arm	
16	YERFX005001	Change Gear Spring	
17	YERFX03001	Change Gear 2	
18	YERFX03002	Feed Gear	
19	YERFX03003	Feed Rack	
20	YERFX046003	Changer Lock Lever	
21	YERFW04001	Feed Switch Holder	
22	YERFW04002	Pick-up Shaft Holder	
23	YERFX005002	Clamper Sub Spring	
24	YERFW04003	FD Sub Holder	
25	YESFX046139	Top Plate	
26	YERFX046004	Select Lock Arm	
27	YERFX046006	Slide Hook	
28	YERFW01001	Pick-up Shaft	
29	YERFX005003	Clamper Arm Spring	
30	YERFX005004	Select Lock Arm Spring	
31	YERFX005013	Suspension Spring	
32	YESFX046140	Select Arm R	
33	YERFX03004	Link Plate	
34	YESFX005137	Link Plate Spring	
35	YERFS01001	Cushion F	
36	YERFS01002	Cushion R	
37	YERFX005014	Feed Spring Plate	
38	YERFX046005	Trigger Arm	
43	YERFX046008	Select Plate L	
44	YERFX046009	Select Plate R	
45	YERFX046010	Select Piece R	
46	YERFX046011	Select Piece L	
53	YESFX046145	Optical Leader	
61	YESSZCDM002	Optical Pick-up Ass'y	
62	YERAS0001	Detection Switch	
71	YESAP342	Servo PCB Ass'y	RTL
72	YERAS0002	Mode Switch	
73	YESAJ07014	Loding Motor Wire	
74	YESAJ07015	Mode Switch Wire	
75	YESAJ07016	Spindle Motor Wire	
76	YESFV01069	Solder Cover	
77	YERFX999001	Wire Clamper M	
78	YESFX024021	Wire Tube Spindle Motor	
79	YESFX024022	Wire Tube Mode Switch	
81	YERFX03005	Roller Shaft Ass'y	
82	YERFX046012	Loading Gear Plate Rivet Ass'y	
83	YERFX046013	Loading Plate Ass'y	
84	YESFX046173	Lock Arm Rivet Ass'y	
85	YESAK01040	Loading/Feed Motor Ass'y	
86	YERFX03006	Loading Gear 1	
87	YERFX03007	Loading Gear 2	
88	YERFX03008	Loading Gear 3	
89	YERFX03009	Loading Gear 4	
90	YERFX03010	Loading Gear 5	

Ref. No.	Part No.	Part Name & Description	Remarks
91	YERFX03011	Loading Gear 6	
92	YERFX03012	Loading Gear 7	
93	YERFW04004	Roller Guide	
94	YERFX005007	Roller Guide Spring	
95	YERFX046015	Disc Stopper Arm	
96	YERFX005008	Disc Stop Arm Spring	
97	YERFX046016	LD Gear Bracket	
98	YESFX046174	L Slide Plate	
99	YERFX005009	Loading Plate Spring	
100	YESFX046150	Loading Roller	
101	YESJS01175	Collar Screw	
111	YERJT01001	Tapping Screw 2*3	
112	YERJT01002	Tapping Screw 2*4	
113	YEJT03117	Tapping Bind Screw 2*4	
114	YERJS01002	Camera Screw 1.7*1.8	
115	YERJS01003	Camera Screw 2*2	
116	YERJS01004	Camera Tapping Screw 1.7*5	
117	YESJS01170	Screw 1.7*2.5	
118	YESJS01148	Screw 2*4	
121	YERJW01001	P Washer 3.5*8*0.3	
122	YERJW01002	HL Washer 1.85*5*0.13	
123	YERJW01003	Lumilar Washer 3.1*6*0.1	
124	YEJE01028	E Ring S 1.5	
125	YERJW01005	P Washer 2.1*4*0.13	
130	YESFX014009	Sensor Holder	

17. EXPLODED VIEW (CD PLAYER)



18. WIRING DIAGRAM

18.1. DC-DC Block

18.2. Display Block

18.3. Main/Connector Block (Top View)

18.4. Main/Connector Block (Bottom View)

18.5. CD Servo Block (Top View)

18.6. CD Servo Block (Bottom View)

19. SCHEMATIC DIAGRAM-1

19.1. DC-DC Block

20. SCHEMATIC DIAGRAM-2

20.1. Main Block-1

20.2. Main-2/Connector Block

20.3. Display Block

20.4. CD Servo Block-1

20.5. CD Servo Block-2

21. SCHEMATIC DIAGRAM for Printing with Letter Size

21.1. Main Block-1 (Left Side)

21.2. Main Block-1 (Right Side)

21.3. Main-2/Connector Block (Left Side)

21.4. Main-2/Connector Block (Right Side)

21.5. Display Block (Left Side)

21.6. Display Block (Right Side)

21.7. CD Servo Block-1 (Left Side)

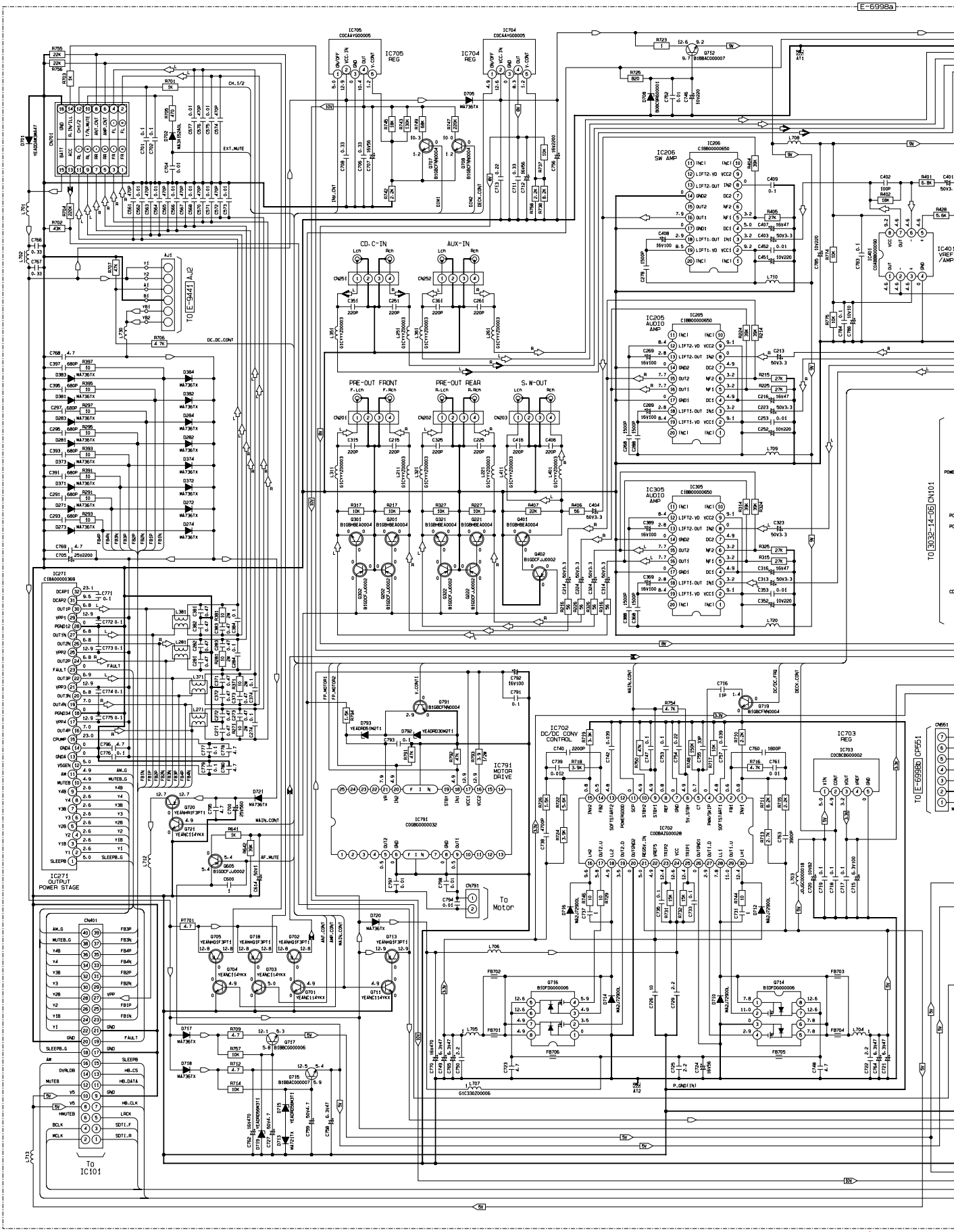
21.8. CD Servo Block-1 (Right Side)

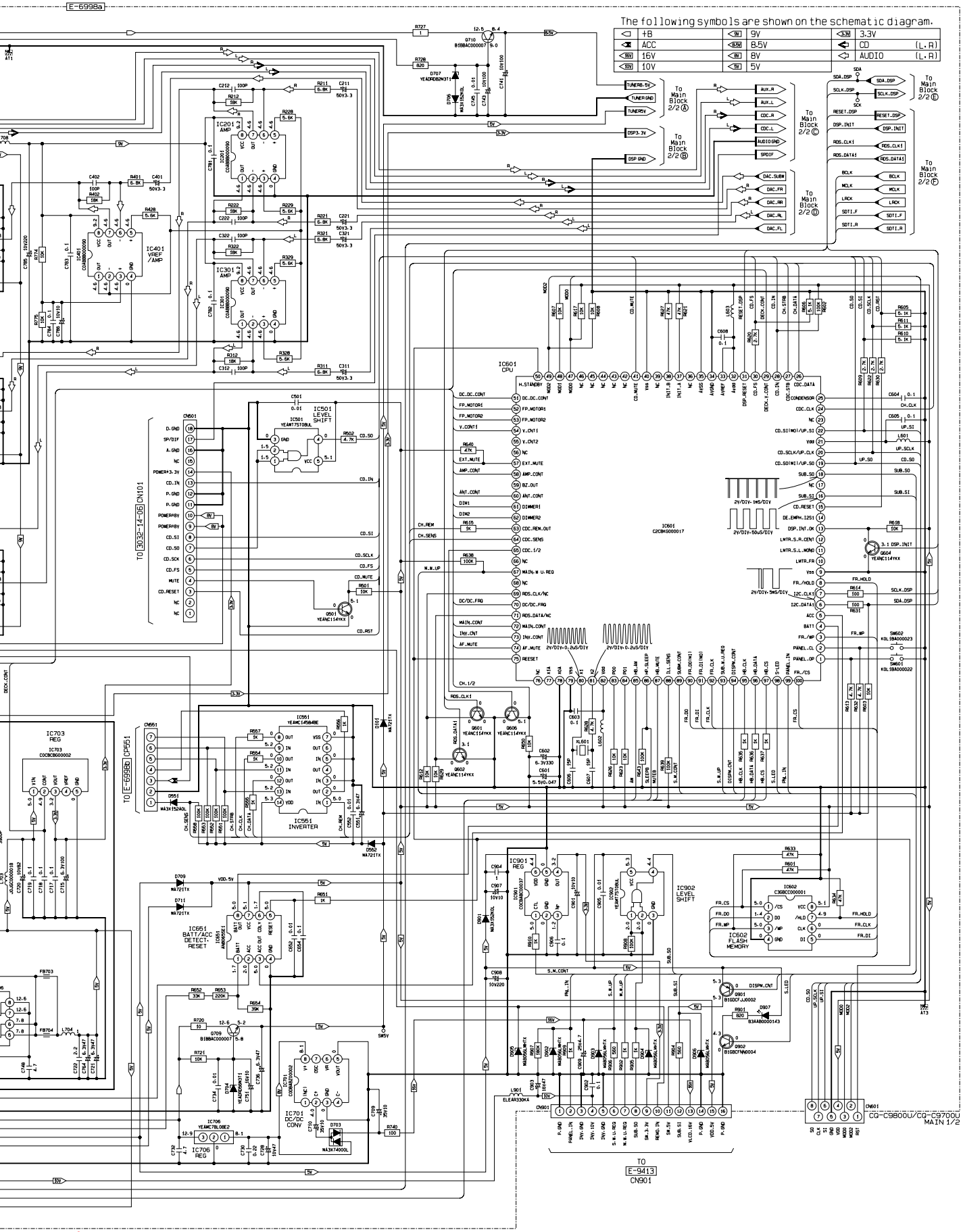
21.9. CD Servo Block-2 (Left Side)

21.10. CD Servo Block-2 (Right Side)

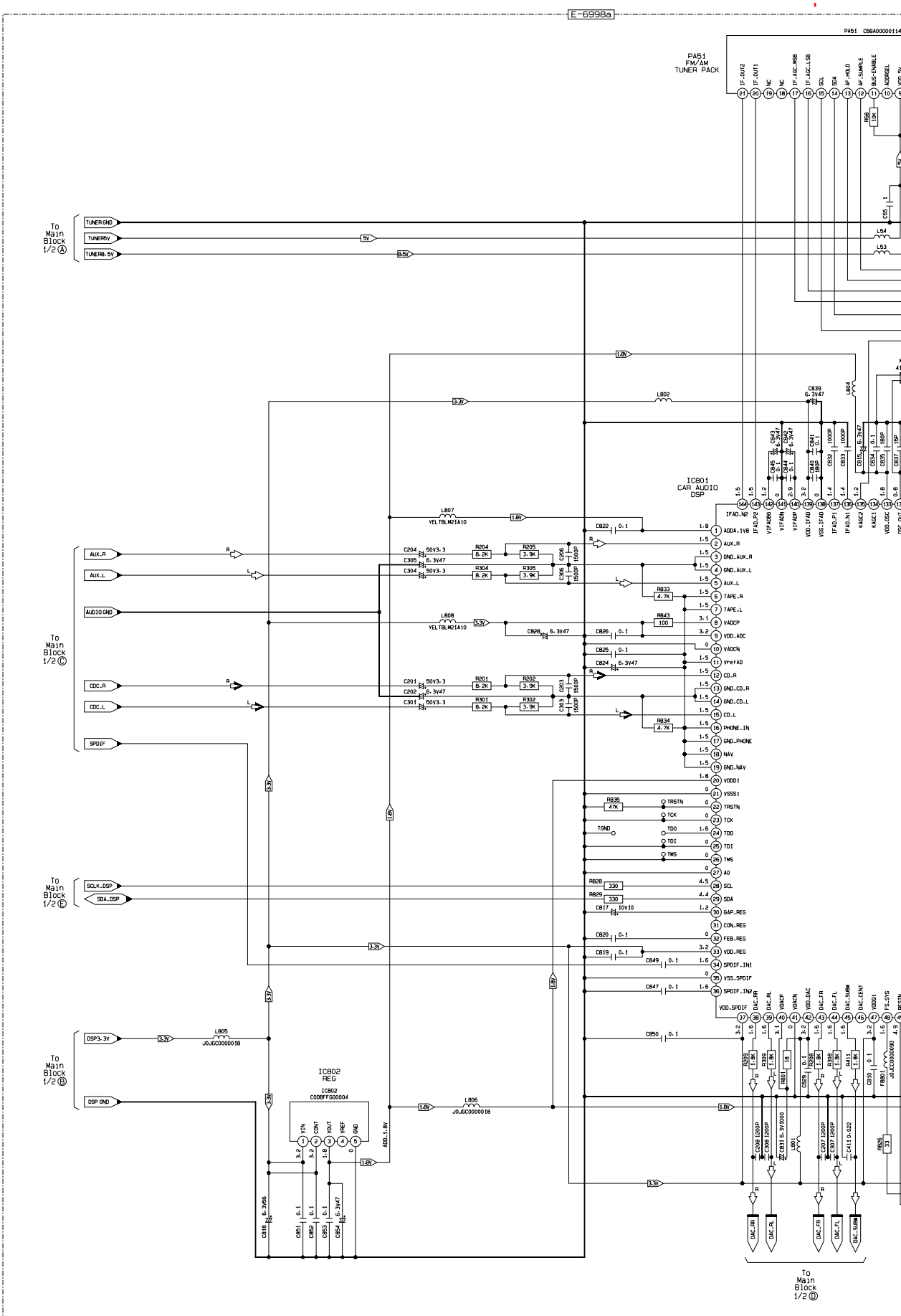
20 SCHEMATIC DIAGRAM-2

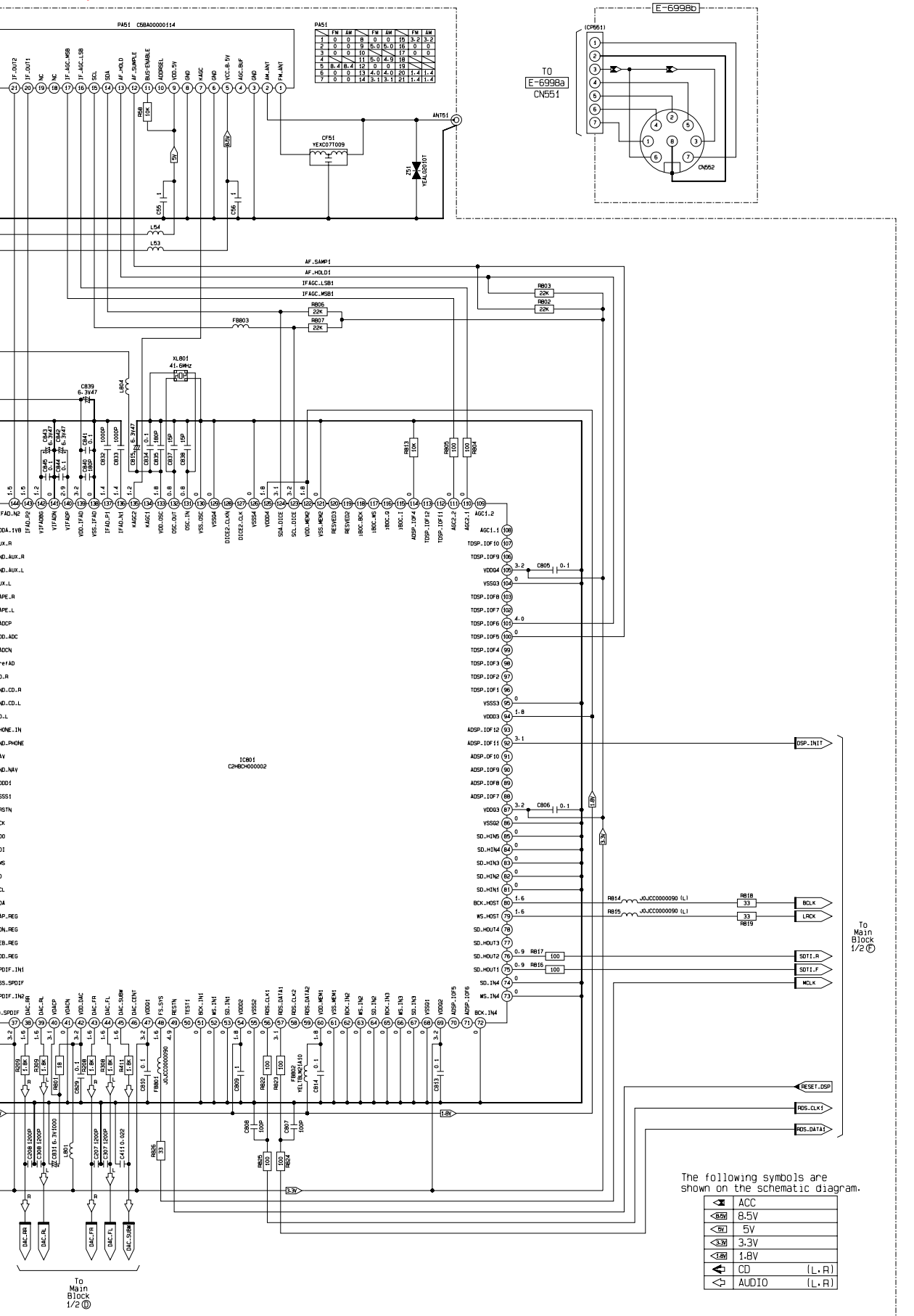
20.1. Main Block-1




E-6998a
The following symbols are shown on the schematic diagram.
+B
ACC
16V
10V
9V
8.5V
8V
5V
3.7V
CD (L,R)
AUDIO (L,R)
IC601 CPU
IC201 AMP
IC301 AMP
IC401 VREF /AMP
IC501 LEVEL SHIFT
IC551 INVERTER
IC651 BATT/ACC DETECT RESET
IC701 DC/DC CONV
IC901 REG
IC902 LEVEL SHIFT
IC703 REG
IC706 REG
IC602 FLASH MEMORY
To Main Block 2/2 (A)
To Main Block 2/2 (B)
To Main Block 2/2 (C)
To Main Block 2/2 (D)
To Main Block 2/2 (E)
TO 3032-14-06 CN101
TO E-6998b CP551
TO E-9413 CN901
CQ-C9800U/CQ-C9700U MAIN 1/2

20.2. Main-2/Connector Block





CQ-C9800U/CQ-C9700U
MAIN 2/2

3032-14-06

To
E-6998a
CN501

CN101
CDRST
CD MUTE
CD ON
CD CK
CD SO
CD SI
DC8V
DC8V
GND(M)
GND(M)
S.OUT
CD3.3V
Lch
GND(A)
GND
Rch
R137 1k
R138 1k
R139 1k
R140 1k
R141 1k
R142 1k
8V
GND(M)
VDD3.3V
Lch
GND
Rch
RESET
MUTE
CDFS
SCK
SO
SI

L302 0
8V
L403
3.3V
GND
VDD3.3V
TP153
SYS3.3V

System => MP3 DSP
CDFS
SCK
SO
SI
MUTE
RESET

GND(A)
TP107
GND(A)

SW2
SW1
RESTSW

Analog GND
JP101
SHORT
Digital GND
C121 10u
C143 10u
C144 10u
C145 10u
C146 10u

MLD
MDATA
MCLK
/RST
BLKCK

STAT
SQCK
SUBQ

CLK2

MP3 DSP => CD DSP Audio Data
DATA_M_C
LRCK_M_C
CLK_M_C

CD DSP => MP3 DSP Audio Data
DATA_C_M
LRCK_C_M
CLK_C_M

CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL

CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA

The following symbols are shown on the schematic diagram.

8V	8V
3.3V	3.3V
	AUDIO(L,R)

Optical Pick-up Ass'y
CN102
VCC
F
E
LD
LD G
GND
A
GND
B
Vref
LPD
GND
T-
T+
F-
F+

R114 0
R116 2.2k
R115 2.2k
PD
NA
NB
R117 0
LD

IC203
YESAM166
SP(-)
SP(+)
SL(-)
SL(+)
VO1(-)
VO1(+)
VO2(+)
VO2(-)
VO3(+)
VO3(-)
Vcc
VIN3
VIN2
VIN1
MUTE2
MUTE1
BIAS
RVcc
VO5(-)
VO5(+)
VO4(-)
VO4(+)
PVcc12
PVcc45
VIN4
VIN5
RGND
REI1
REI2
REO1
REO2
T-
T+
F-
F+

YESAM166
CH1 Spindle Motor
CH2 Feed Motor
CH3 Loading Motor (Not use)
CH4 Focus Coil
CH5 Tracking Coil

LN9 SL(-)
LN8 SL(+)
LN7 RESTSW
LN6 GND(M)
LN5 SW1
LN4 SW2
LN3 GND(M)
LN2 SP(-)
LN1 SP(+)

C207 0.1u
C205 0.1u
C253 220uF/10V
C251 220uF/10V

R202 0
R201 6.8k
TVD
TP149
TVD

TP150
ECS
R205 0
R204 1k
ECS
R206 18k
ECM
TP155
ECM

TP157
GND(M)

TP156
KICK
R129 6.8k
KICK
R208 0
R207 5.1k
TRD
TP151
TRD

C501 22P
R506 15K
C505 47uF/6.3V
R506 47K
Q503
YESAN071
C203 3300p
C204 3300p
R209 5.1k
FOD
TP152
FOD
R210 0

+5V
C252 47uF/6.3V
R211 27k
R212 47k
C208 22p
Q201
B1BDBC000001
3.3V
C141 0.1u
TP118
DSP3.3V
L304 0
TP158
3.3V(D)

Q101
B1BDBC000001
TP159
3.3V(A)
R101 4.7
L305 0
C151
10uF/16V

TP111
RFO
TP112
RFIN
IC202
YESAM163
PD
LD
VCC
RFN
RFOUT
RFIN
CAGC
ARF
CEA
3TOUT
CBDO
BDO
COFTR
OFTR
NRFDET
GND
TBAL
FBAL
GCTL
FEOUT
FEN
TEN
TEOUT
TEBPF
VDET
Vref
A
C
B
D
F
E
NB
NA
F
E

R104 470
R105 2.7k
R103 1.5k
C102 0.1u
C101 220p
C104 0.047u
C105 2200p
C106 1000p
C107 0.047u
R143 2M
C108 330p
C109 0.1u
C152 22uF/6.3V
C140 0.1u
C103 0.1u
C153 22uF/6.3V
C110 0.1u
TP103
GND
Vref

TP116
FBAL
TP115
TBAL
TP105
FE
TP104
TE
R111 18k
R110 10k
C114 1000p
C113 1500p
C112 2200p
R109 150k
R108 390k
C111 0.022u
C136 0.1u
R130 1M
R120 0
R113 120k
C116 0.1u
C115 0.1u
TP102
Vref
R107 2.7k
TP113
GCTR
R106 10k
R118 15k

IC201
MN6627482WB
TRV
TVD
PC
ECM
ECS
KICK
TRD
FOD
Vref
FBAL
TBAL
FE
TE
RFENV
VDET
OFT
TRCRS
/RFDET
BDO
LDON
OFTR
NRFDET
PMCK/PLAY
SMCK
/RST
STAT
DMUTE
SUBQ
SQCK/GOOD
BLKCK
/LOCK
/TLOCK
/FLOCK
SENSE
MLD
MDATA
MCLK
TX
DVss1
DVdd1
SRDATA
LRCK
BCLK
SSEL
MSEL
PSEL
CSEL
RSEL/GIO3
OUTR
AVss1
OUTL
AVdd1
/TEST
IOSEL
RESY/FLAG6
DEMPH
CRC
CLVS
FLAG
IPFLAG
GIO2/FCLK
GIO1/CLDCK
BYTCK/TRVSTP
PLLF2
TOFS
WVEL
ARF
Iref
DRF
DSLF
PLLF
VCOF
AVdd2
AVss2
EFMCK384
PCKOFS1B
VCOF2
SUBC
SBCK
Vss
X1
X2
Vdd
CLK_M_C
LRCK_M_C
DATA_M_C
TP138
TP
C135 0.1u
R119 1k
L303 0
R326 100
L301 100u

TP154
NRFDET
ARF
TP101
ARF
C122 1000p
R122 56k
R123 120k
C123 0.022u
R124 220k
C124 0.1u
C125 1000p
R125 470
C127 1000p
R126 2.7k
C126 0.1u
C128 0.22u
C129 0.1u
C130 1000p
R128 220
C131 0.1u
C132 0.1u
C139 0.1u
R127 220k

R131 2.2k
R136 2.2k
R133 2.2k
/RST
STAT
SUBQ
SQCK
BLKCK
MLD
MDATA
MCLK
DATA_C_M
LRCK_C_M
CLK_C_M

R501 220
PH501
R501 56k
Q501
YESAN072
R503 10k
Q502
YESAN071
R504 3.3k

TP415
3.3V(RAM)
L401
GND
VDD3.3V
C437 0.1u
C418 0.1u
C452 10u
C414 10u
C464 47uF/6.3V
L402 10u
R480 56
R478 56
IC406 YESAM171
IC402 YESAM250
FLASH

System => MP3 DSP
CDFS
SCK
SO
SI
MUTE
RESET
R435 4.7k
R415 47k
R415 47k
R414 47k
R434 100k
SW2
SW1
RESTSW
R483 2.2k
R482 2.2k

C422 10u
C421 10u
C420 10u
C419 10u
C433 10u
TP401
CVDD
C463 47uF/6.3V
C413 0.1u
C412 0.1u
C411 0.1u
C410 0.1u
C439 10u
C440 10u
C434 10u
C441 10u
C442 10u
C435 0.1u
IC411
YESAM178
Vin
Vo
GND
Cont.
Noise
TP412
A20
TP411
A19
TP413
A21
TP414
A22
C401 0.1u
C402 0.1u
C403 0.1u
C404 0.1u
IC401
YESAM176
RA401 56
RA413 56
RA409 56
RA410 56
R401 10k
R402 10k
R403 10k
R404 10k
MUTE
SUBQ
nPS
R/W
nMSTRB
2V/DIV,10µS/DIV
2V/DIV,0.2µS/DIV
2V/DIV,50mS/DIV
2V/DIV,10mS/DIV
2V/DIV,5mS/DIV
3V
C405 0.1u
C406 0.1u
C407 0.1u
C408 0.1u
C409 10u
C424 10u
C436 0.1u
C426 0.1u
X401
YESXL018
IC409
YESAM167
R430 560
R429 220
R428(U)
R431 4.7k
R432 10k
R408 4.7k
R409 4.7k
R481 4.7k
TP402 TMS
TP403 TCK
TP404 TRST
TP405 TDI
TP406 TDO
TP407 EMU
TP408 EMU0
TP409 VDD3.3V
TP410 GND
RA414 100
RA412 100
R425 100
R436 100

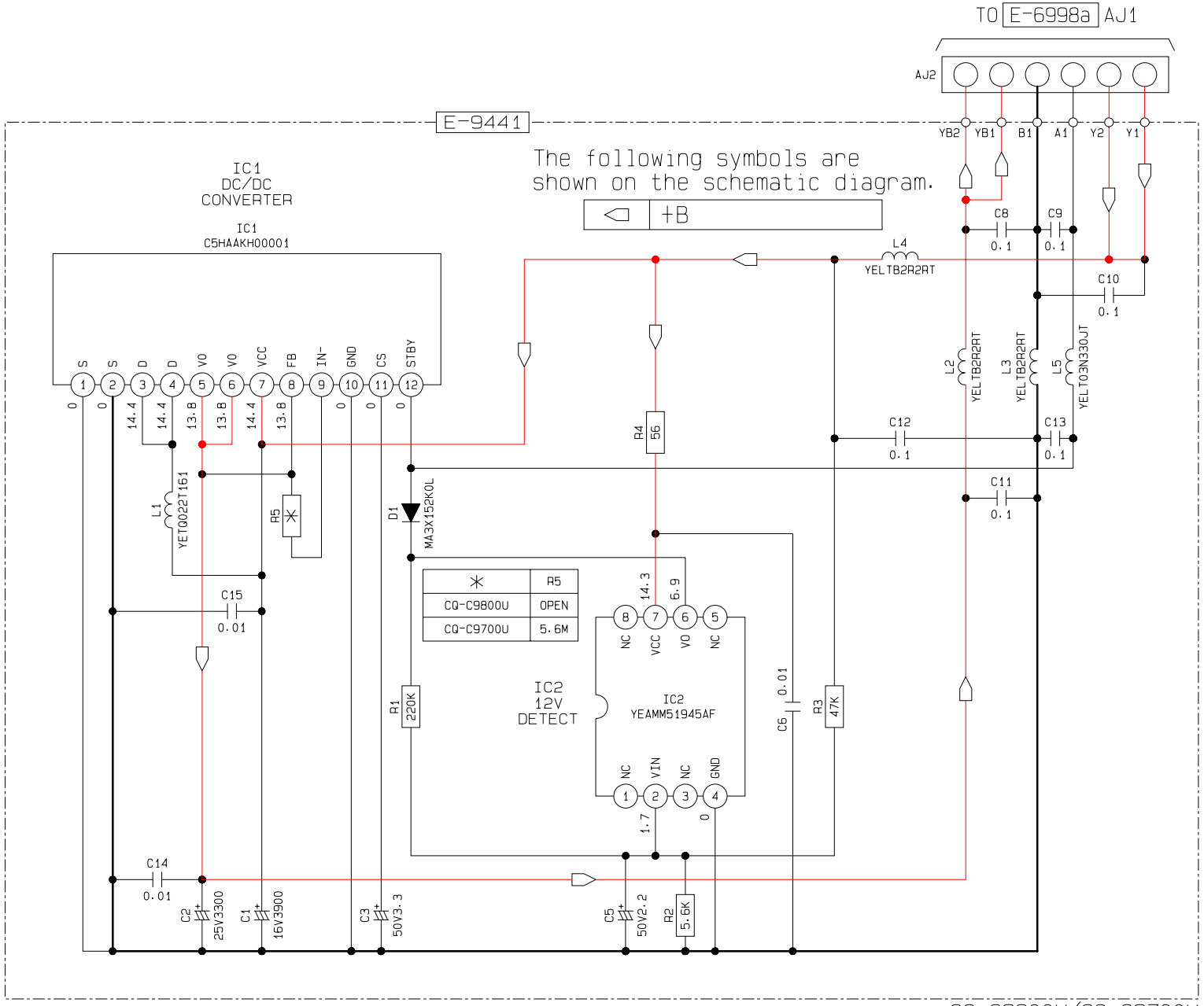
MP3 DSP => CD DSP Audio Data
DATA_M_C
LRCK_M_C
CLK_M_C

CD DSP => MP3 DSP Audio Data
DATA_C_M
LRCK_C_M
CLK_C_M

CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL

CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA

MLD
MDATA
MCLK
/RST
BLKCK
STAT
SQCK
SUBQ
CLK2
SCK
CDFS
RESTSW
SW1



✳	R5
CQ-C9800U	OPEN
CQ-C9700U	5.6M

IC903 IR RECEIVE

IC900 DISPLAY CONTROL

IC900 C2DBKJ000187

IC901 FLASH MEMORY
IC901 C3FBPD000139

IC902 RESET
IC902 MN1382JP

CN901

TO E-6998a CN901

CN902

LCD901 L5F0000000007

CQ-C9800U/C9700U DISP

The following symbols are shown on the schematic diagram.

16V	16V
10V	10V
5V	5V
3.3V	3.3V

E-6998a

The following symbols are shown on the schematic diagram.

◁	+B	9V	9V	3.3V	3.3V
◁ACC	ACC	8.5V	8.5V	⇦	CD (L, R)
16V	16V	8V	8V	⇦	AUDIO (L, R)
10V	10V	5V	5V		

IC705 COCAAYG00005 REG
IC704 COCAAYG00005 REG
IC706 NA736TX
IC206 SW AMP C1BB00006650
IC205 AUDIO AMP C1BB00006650
IC305 AUDIO AMP C1BB00006650
IC401 VREF / AMP COBAJG000026
IC301 AMP COBAJG000026
IC201 AMP COBAJG000026
IC601 CPU C2CBM0000017
IC501 LEVEL SHIFT YEAM1750BUL
IC651 BATT/ACC DETECT/ RESET AN6905FBE1
IC271 OUTPUT/ POWER STAGE C1BA00000369
IC791 MOTOR DRIVE C00B50000032
IC702 DC/DC CONV CONTROL C00BAJG00028
IC703 REG C0CBC0000002
IC561 INVERTER YEAMC1456ABE
IC701 DC/DC CONV C0CBM0000002
IC706 REG YEAMC78L08E2
IC901 REG C0DBC0000017
IC902 LEVEL SHIFT C30BC0000001
IC602 FLASH MEMORY C30BC0000001

CD.C-IN
AUX-IN
PRE-OUT FRONT
PRE-OUT REAR
S.W-OUT

TO [E-9441] A,2
TO [E-9998b] CP551
TO 3032-14-06] CN101
TO Main Block 2/2 (A)
TO Main Block 2/2 (B)
TO Main Block 2/2 (C)
TO Main Block 2/2 (D)
TO Main Block 2/2 (E)
TO Main Block 2/2 (F)
TO IC101
TO Motor
TO E-9413 CN901

CG-C9800U/CG-C9700U MAIN 1/2

E-6998a

E-6998b

PA51 FM/AM TUNER PACK

PA51 C5BA00000114

PA51	FM	AM
1	0	0
2	0	0
3	0	0
4		
5	8.4	8.4
6	0	0
7	0	0

	FM	AM
8	0	0
9	6.0	6.0
10		
11	6.0	4.9
12	0	0
13	4.0	4.0
14	3.1	3.1

	FM	AM
15	3.2	3.2
16	0	0
17	0	0
18		
19		
20	1.4	1.4
21	1.4	1.4

TO E-6998a CN551

(CP551) CN552

To Main Block 1/2 Ⓐ

To Main Block 1/2 Ⓒ

To Main Block 1/2 Ⓔ

To Main Block 1/2 Ⓑ

To Main Block 1/2 Ⓕ

To Main Block 1/2 Ⓓ

ICB01 CAR AUDIO DSP

IC801 C2HBCH000002

IC802 REG C0DBFFG00004

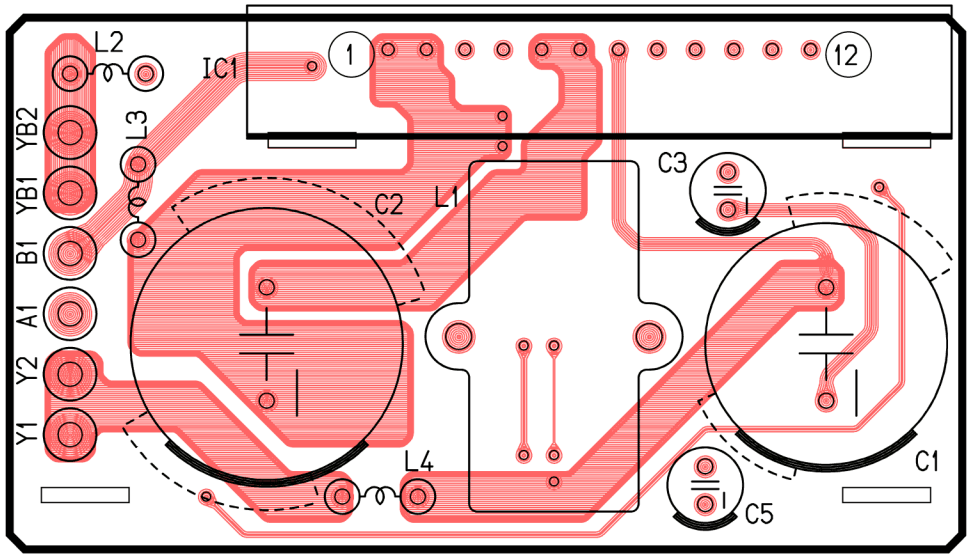
CF51 YEXC071009

ZD51 YEL6D101

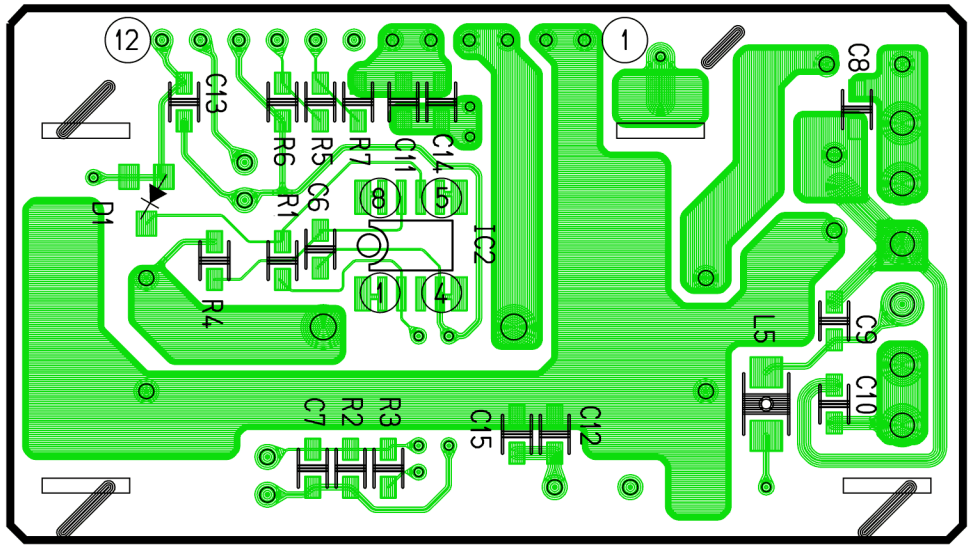
XL801 41.0MHz

The following symbols are shown on the schematic diagram.

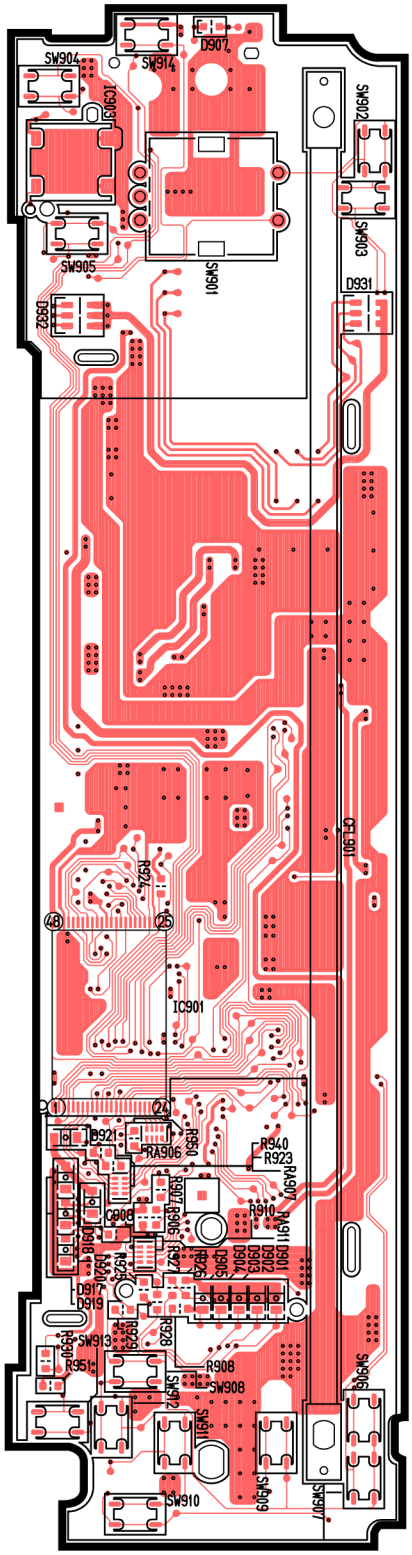
ACC	
8.5V	
5V	
3.3V	
1.8V	
CD	(L,R)
AUDIO	(L,R)



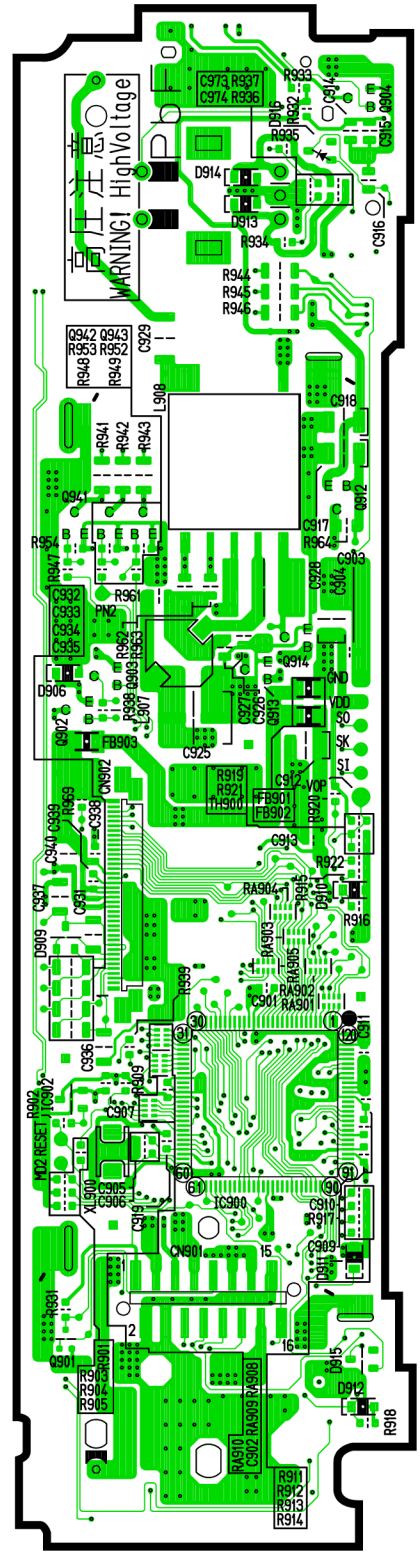
[E-9441][Top View]



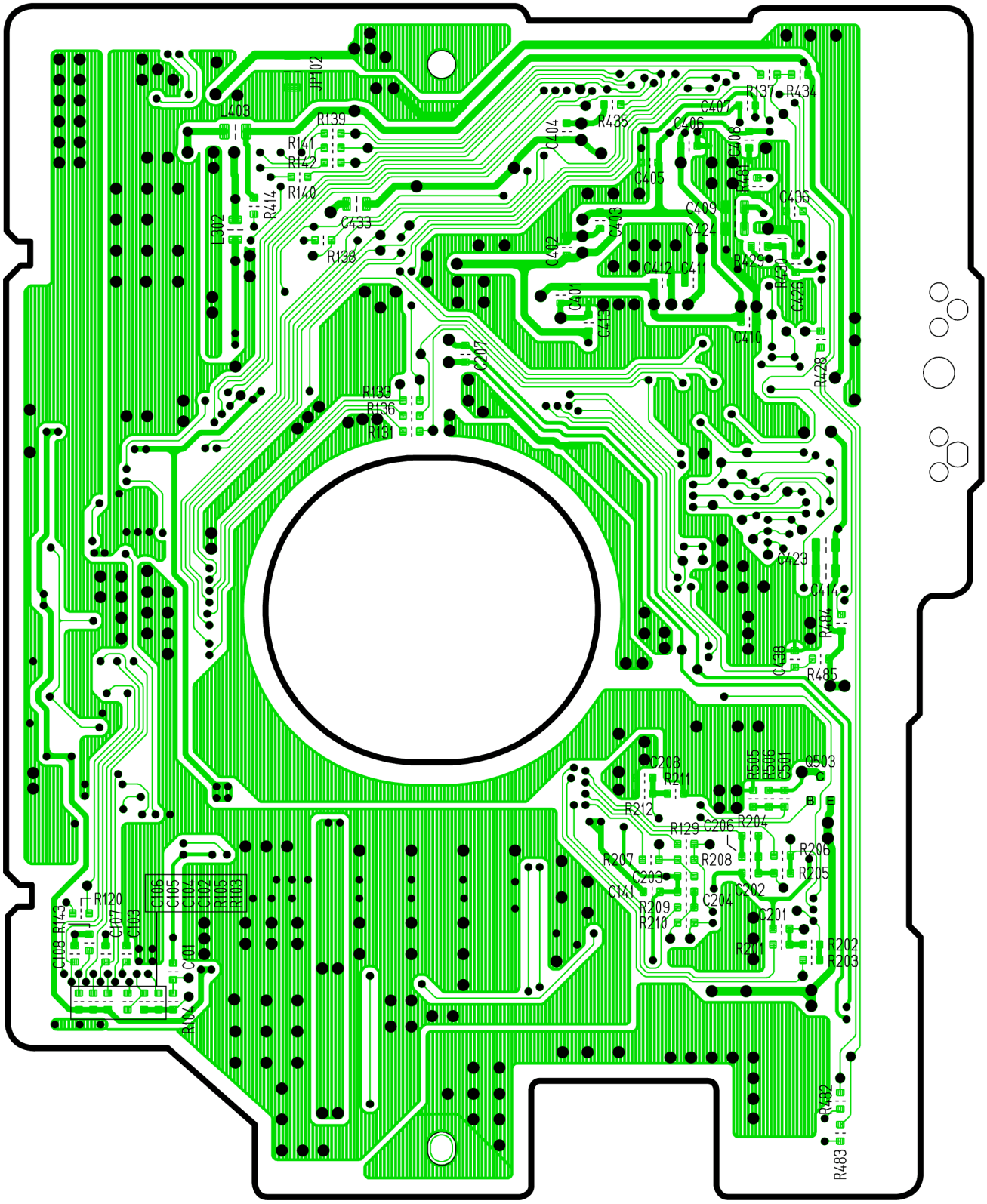
[E-9441][Bottom View]



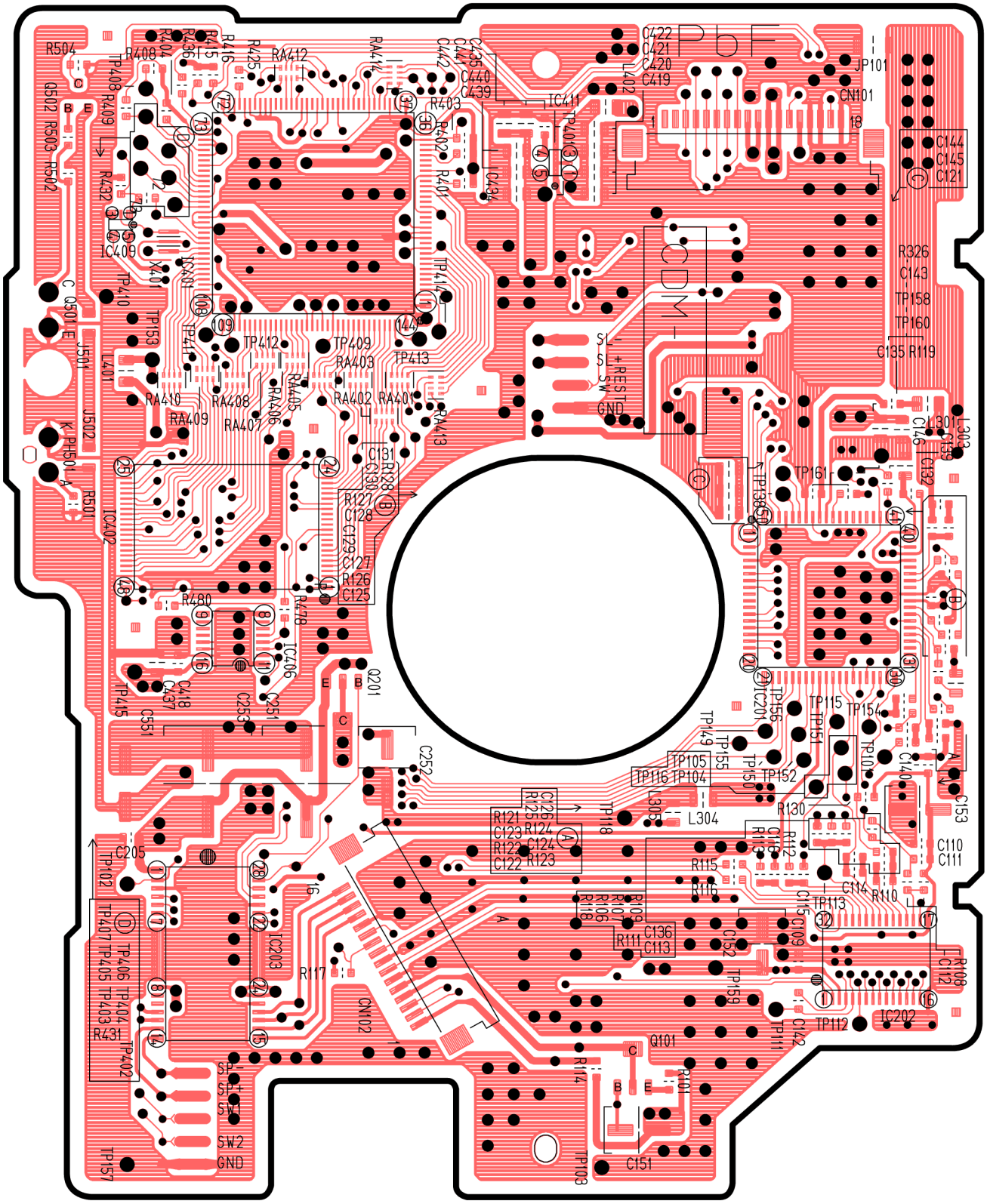
[E-9413][Top View]



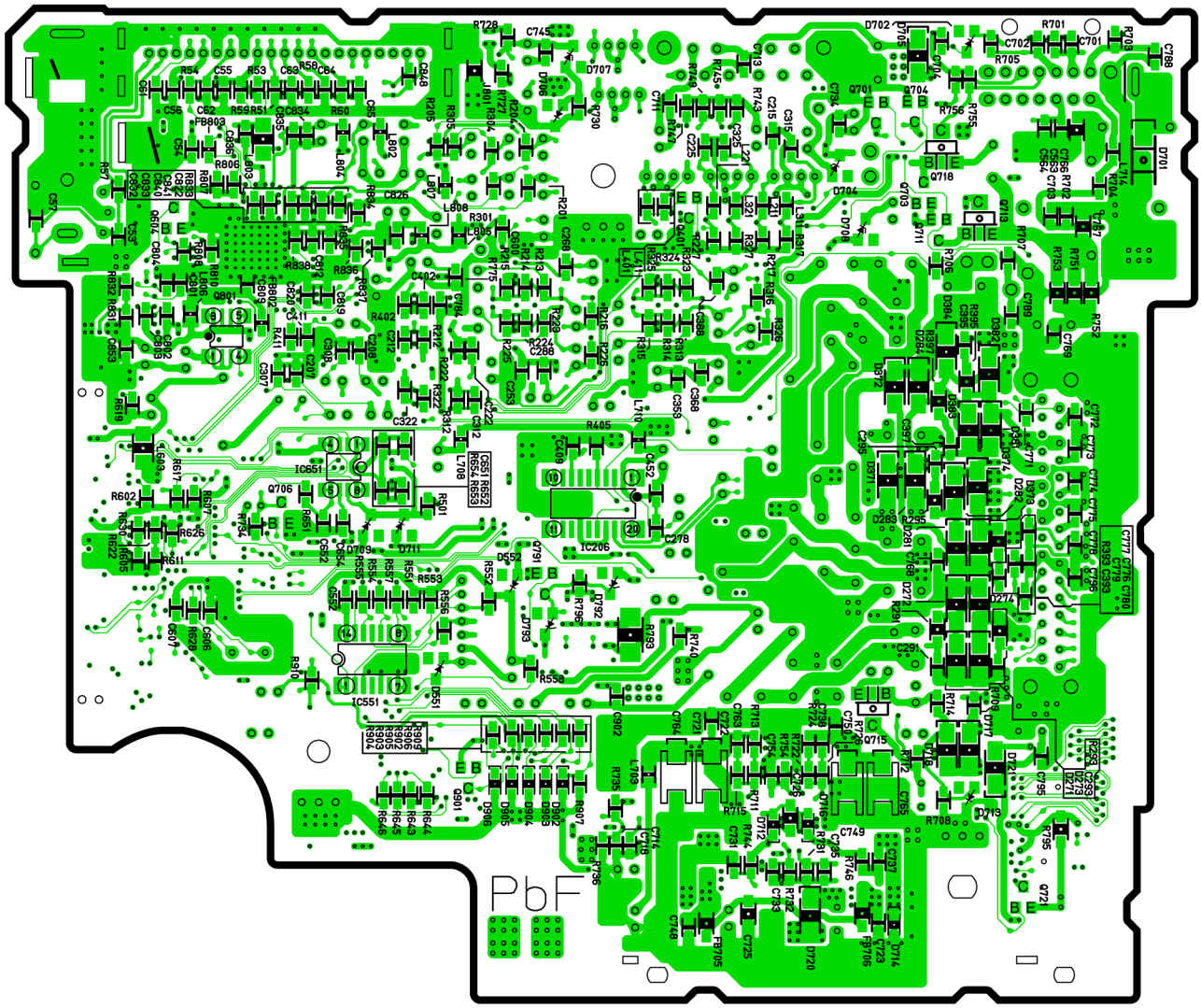
[E-9413][Bottom View]



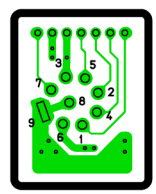
[3032-14-06][Bottom View]



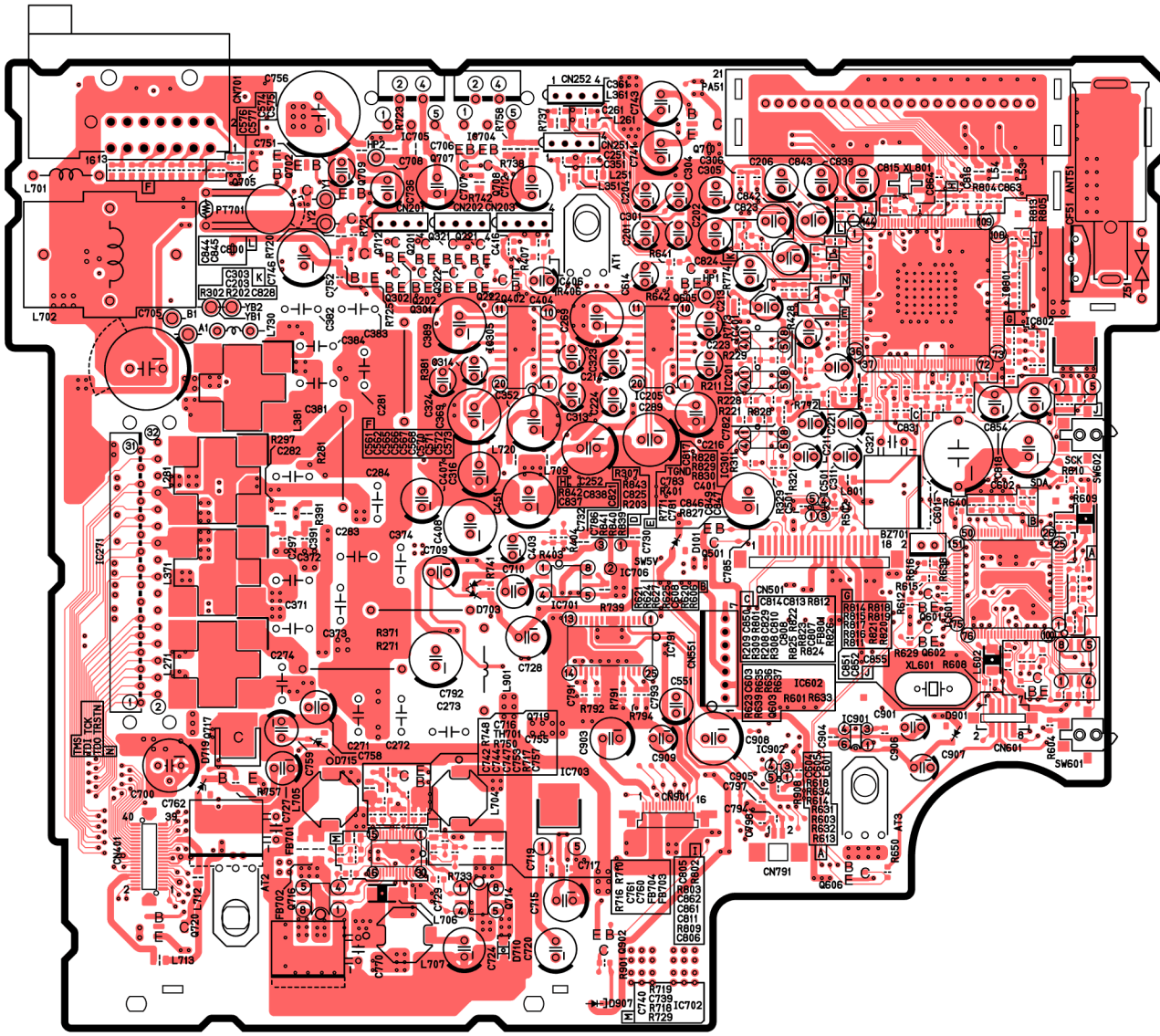
[3032-14-06][Top View]



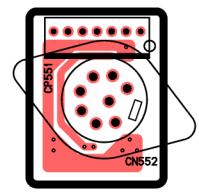
[E-6998a][Bottom View]



[E-6998b][Bottom View]

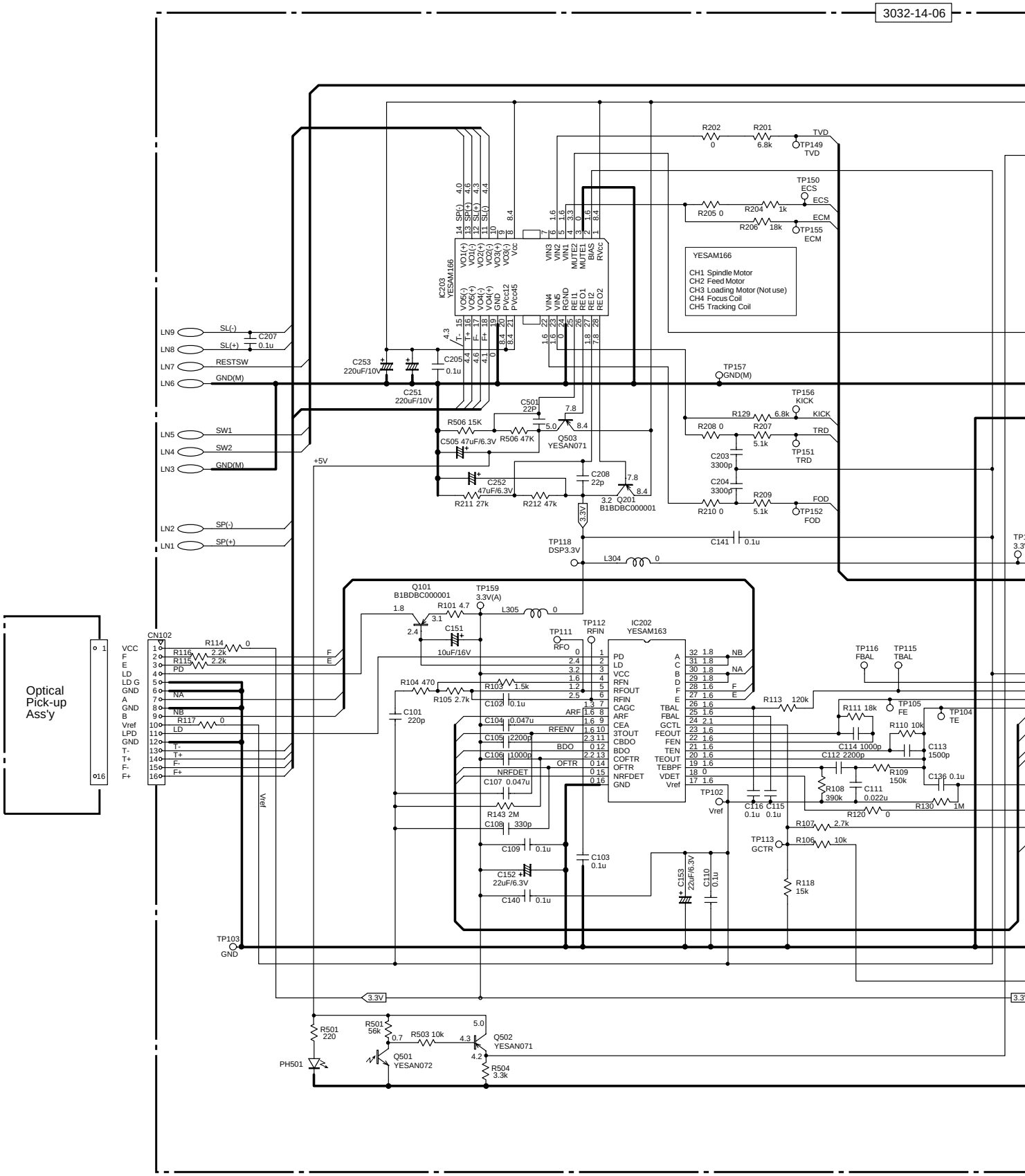


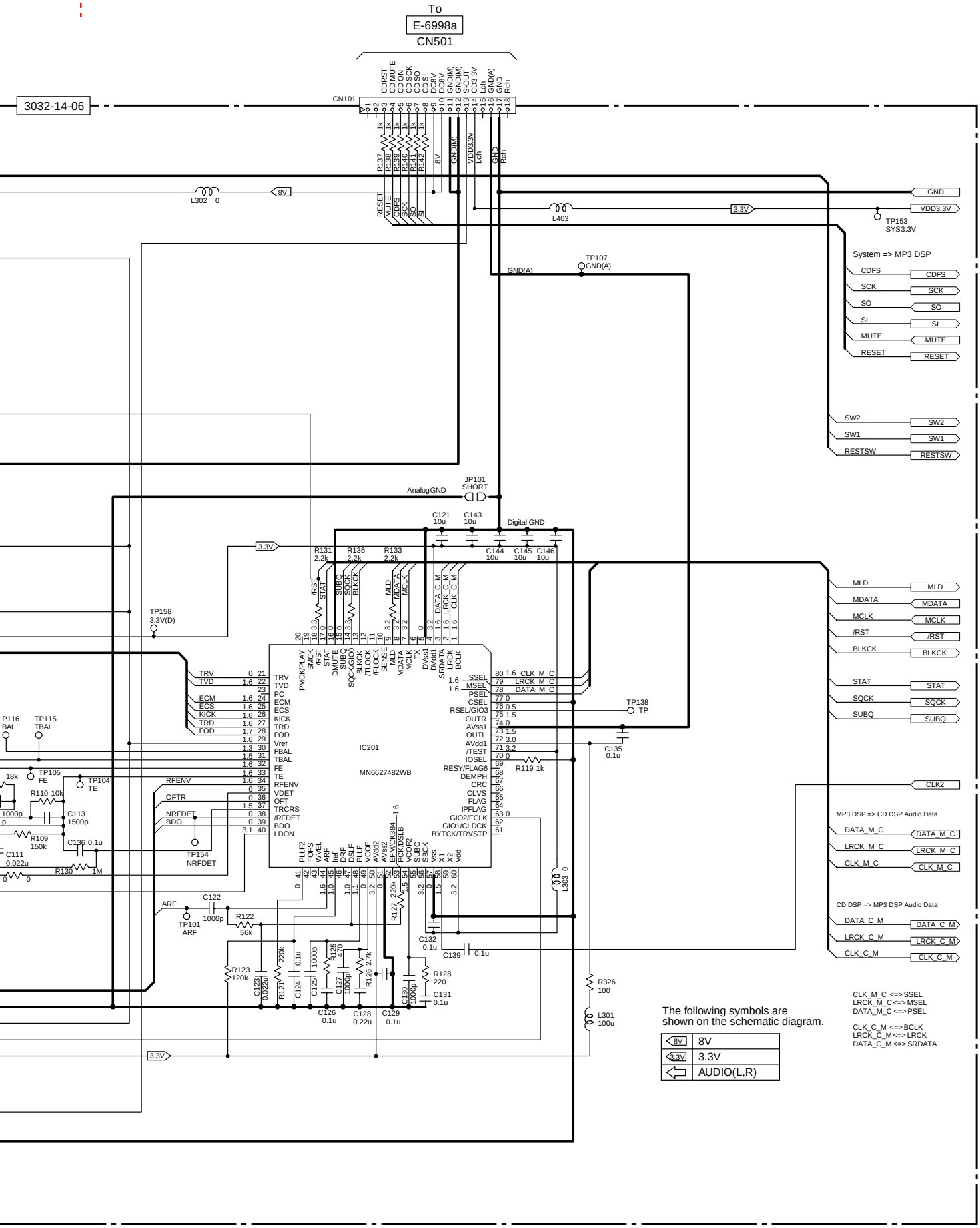
[E-6998a][Top View]



[E-6998b][Top View]

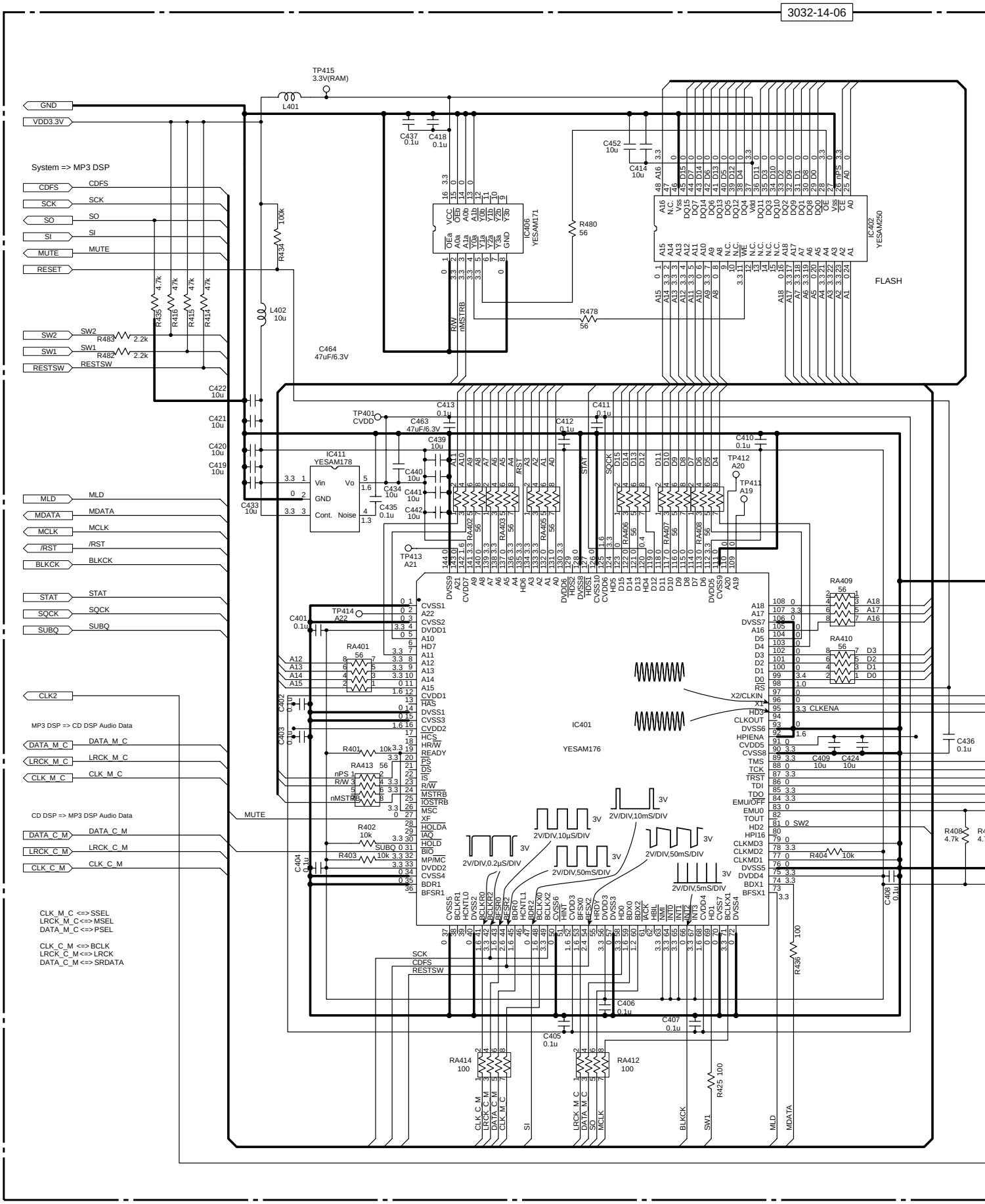
20.4. CD Servo Block-1



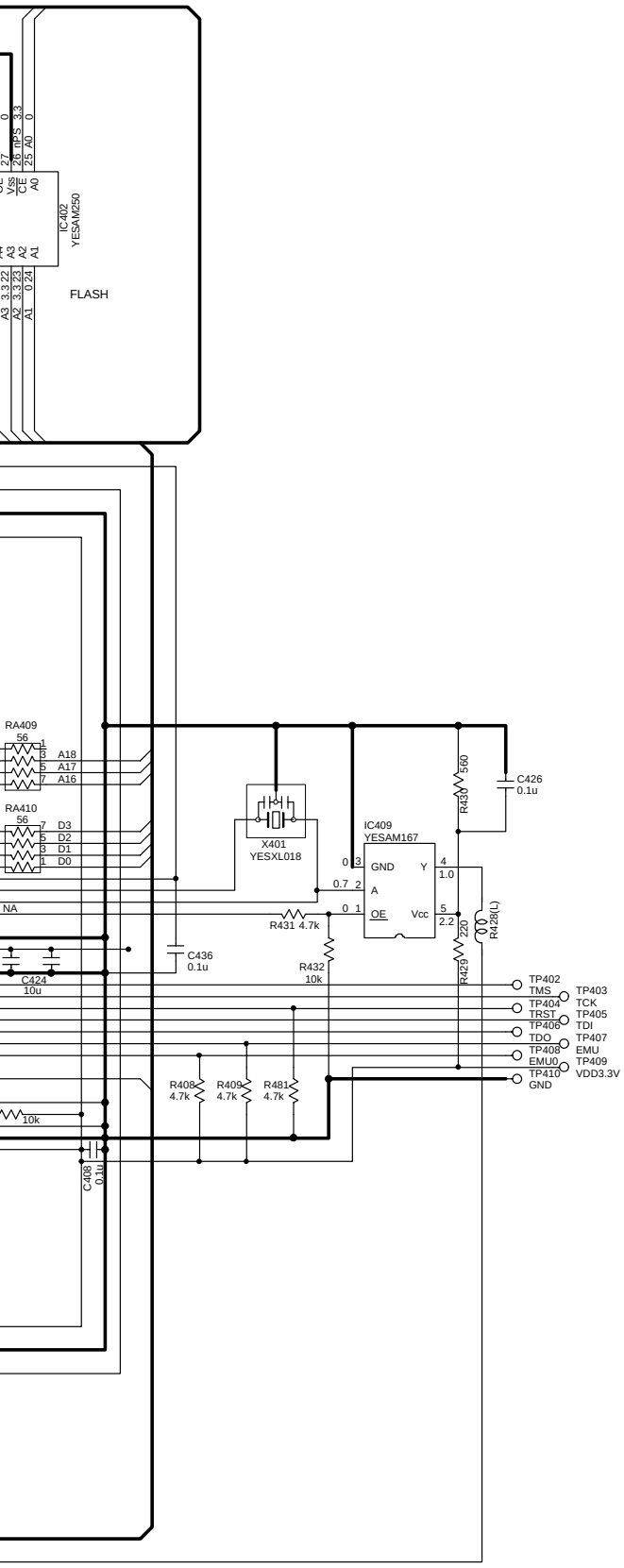


CQ-C9800U/C9700U YGFD15281 CD Servo Block (1/2)

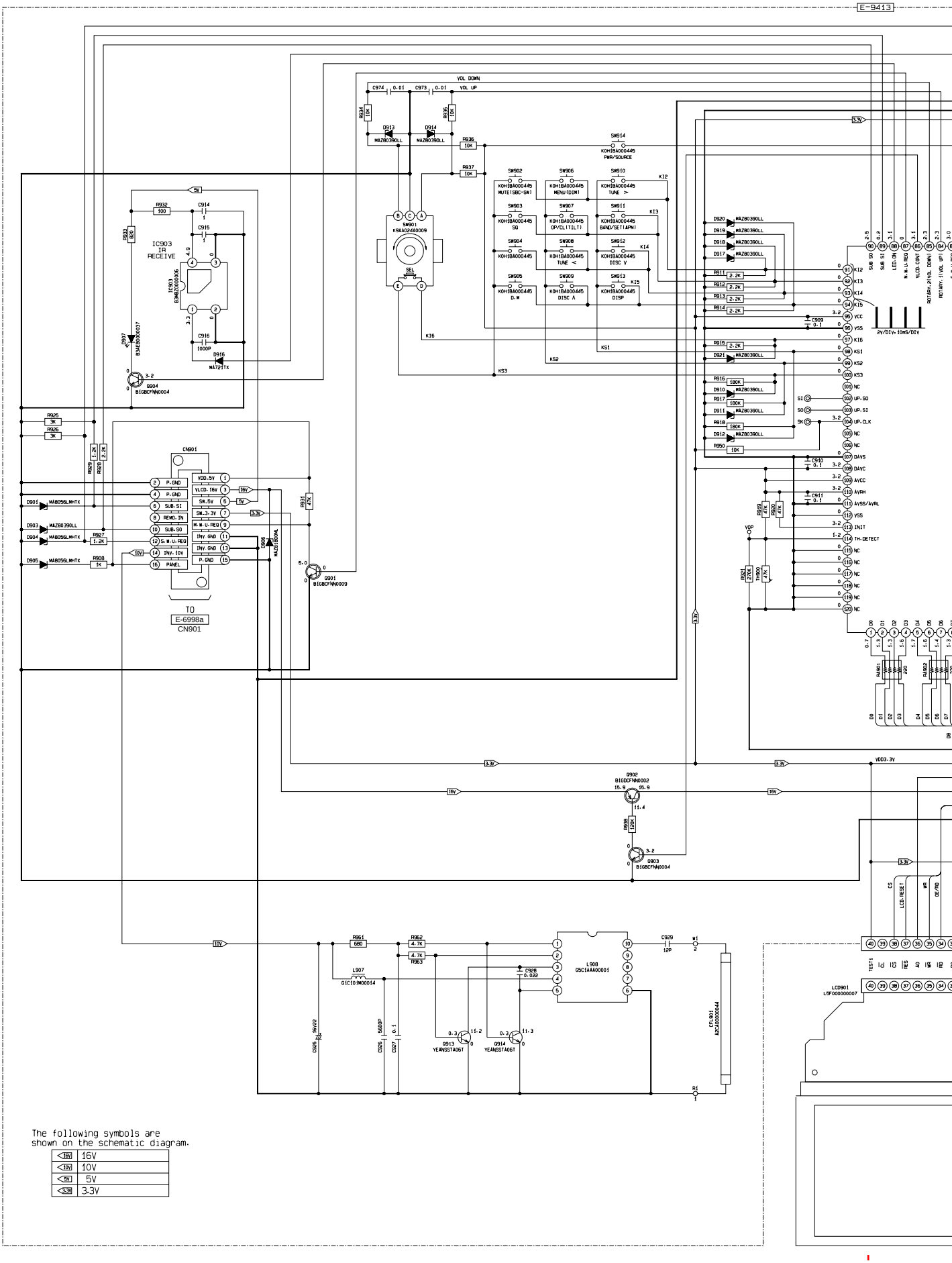
20.5. CD Servo Block-2



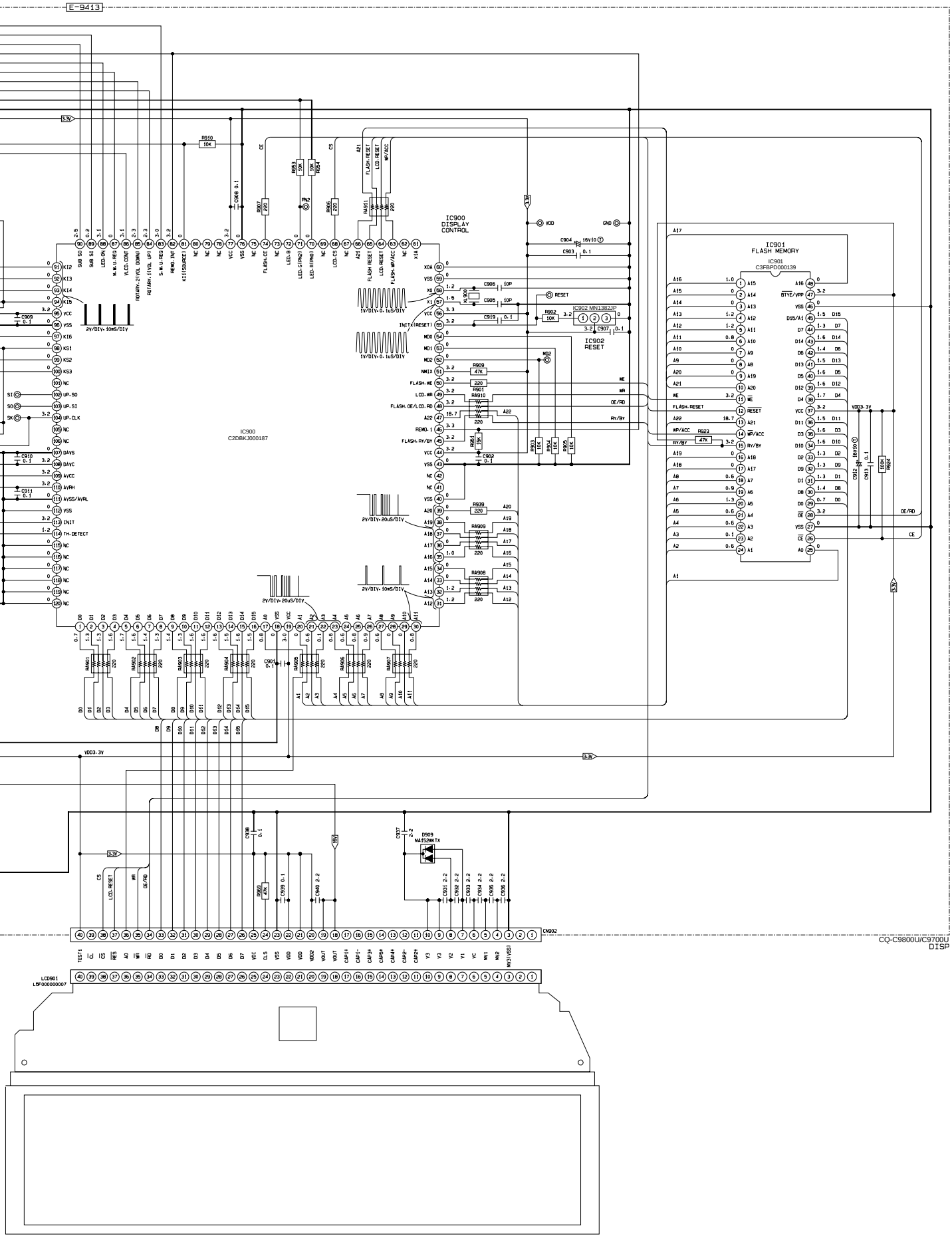
-06


IC402
YESAM250
FLASH
RA409
56
A18
A17
A16
RA410
56
D3
D2
D1
D0
X401
YESXL018
IC409
YESAM167
GND
A
OE
Y
Vcc
R430 560
C426
0.1u
R431 4.7k
R432
10k
R428(L)
220
R429
C436
0.1u
C424
10u
R408
4.7k
R409
4.7k
R481
4.7k
10k
C408
0.1u
TP402
TMS
TP403
TCK
TP404
TRST
TP405
TDI
TP406
TDO
TP407
EMU
TP408
EMU0
TP409
VDD3.3V
TP410
GND

20.3. Display Block



E-9413



CQ-C9800U/C9700U
DISP